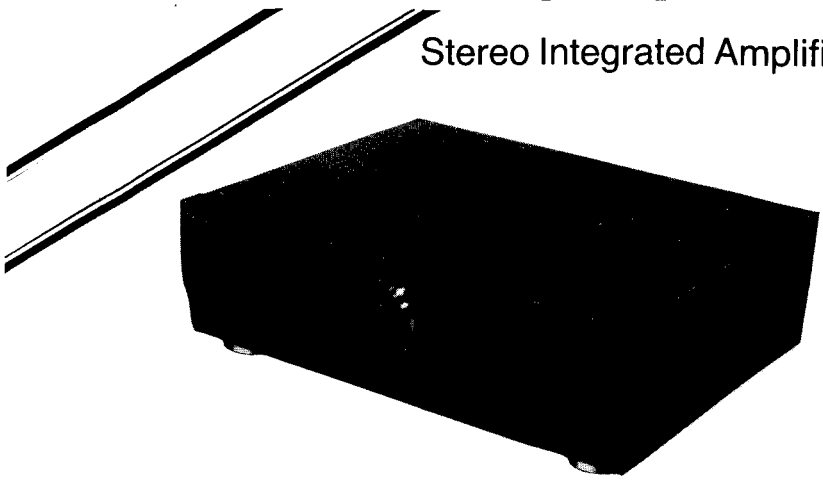
ORDER NO. AD9305163A8

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-A900



Colour

(K)	Black Type

Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	
(GC)	Asia, Latin America, Middle Near East and Africa	
(GN)	Oceania	

Please file and use this manual together with the service manual for Model No. SU-A800, Order No. AD9305162C8.

Notes: ●This simplified service manual is provided to indicate the main differences between the original model No. SU-A800 (E) and the subsequent model No. SU-A900 (E), (EB), (EG), (GC), (GN).
●However, in regard to the sections of the "Schematic diagram", "Printed circuit board diagram" and "Replacement parts list (electric part)", all of the contents, not limited to changed points, are printed in this manual.

CHANGE

SPECIFICATIONS (DIN 45 500)

[SU-A800 (E)]

20 Hz~20 kHz continuous power output	
both channels driven	2×55 W (8Ω)
1 kHz continuous power output	
both channels driven (THD: 1%)	2×70 W (8Ω)
	2×100 W (4Ω)
63 Hz~12.5 kHz continuous power output	
both channels driven (THD: 0.7%)	2×65 W (8Ω)
	2×85 W (4Ω)

■ GENERAL

Power consumption	230 W
Power supply	AC 50 Hz/60 Hz, 230 V
Weight	8.6 kg

[SU-A900 (E), (EB), (EG), (GC), (GN)]

20 Hz~20 kHz continuous power output	
both channels driven	2×90 W (8Ω)
1 kHz continuous power output	
both channels driven (THD: 1%)	2×100 W (8Ω)
	2×140 W (4Ω)
63 Hz~12.5 kHz continuous power output	
both channels driven (THD: 0.7%)	2×90 W (8Ω)
	2×125 W (4Ω)

■ GENERAL

Power consumption	315 W
Power supply	
For (EB), (GN) areas	AC 50 Hz/60 Hz, 230 V~240 V
For (GC) area	AC 50 Hz/60 Hz, 110 V~127 V/220 V~240 V
Weight	9.4 kg

Technics

■ CHANGE IN REPLACEMENT PARTS LIST SU-A800 (Page 30 of service manual)

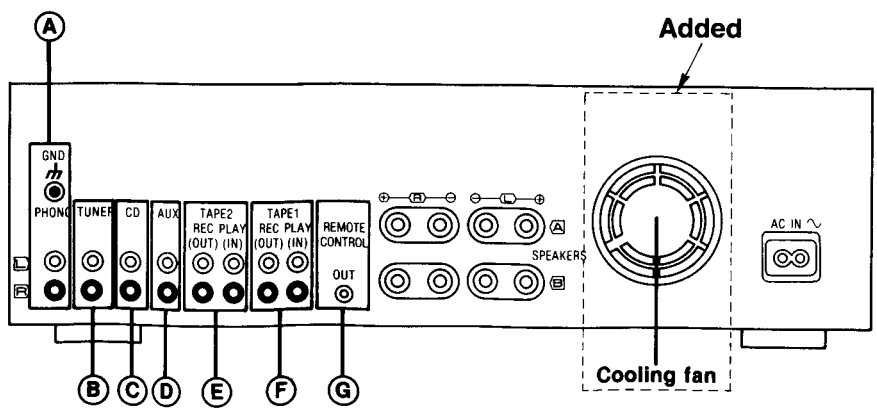
All electric parts lists of the SU-A900 are printed on pages 16 through 19 in this service manual.

Notes: •Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
•The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
•The "(SF)" mark denotes the standard part.

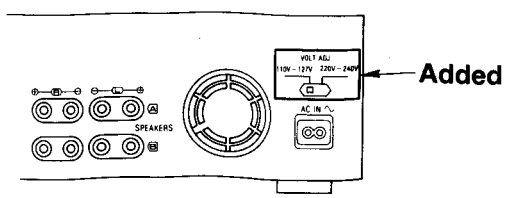
Ref. No.	Part Number		Description	Remarks
	SU-A800 (E) (Original)	→ **SU-A900 (E) (EB) (EG) (GC) (GN)**		
CABINET PARTS				
1	RKM0089B-1K	**RKM0089C-1K**	CABINET	
6	RGR0171D-A1	**RGR0171A-A1**	REAR PANEL	(E) (EG)
		RGR0171E-A1	REAR PANEL	(EB)
		RGR0171B-A	REAR PANEL	(GC)
		RGR0171A-C1	REAR PANEL	(GN)
43	——	**REM0040**	FAN MOTOR	**Added**
44	RFKGUA800E-K	**RFKGUA900E-K**	FRONT PANEL ASS'Y	
PACKING MATERIALS				
P1	RPG1573	**RPG1574**	PACKING CASE	(E) (EG) (GC) (GN)
		RPG1578-1	PACKING CASE	(EB)
P6	——	**RPH0032**	PROTECTION SHEET	(EB) (GN) **Added**
ACCESSORIES				
A2	RJA0019-2K	**VJA0733**	AC POWER SUPPLY CORD	⚠ (EB) (SF)
		RJA0036-K	AC POWER SUPPLY CORD	⚠ (GN)
A3	RQA0013	——	——	(GC) **Deleted**
		RQX7433ZA	WARRANTY CARD	(GN)
A5	RFKSUA800E-K	**RQT1980-B**	INSTRUCTIONS MANUAL	(EB) (GN)
		RFKSUA800EGK	INSTRUCTIONS MANUAL	(EG)
		RFKSUA800GCK	INSTRUCTIONS MANUAL	(GC)
A7	——	**SJP5213-2**	POWER PLUG ADAPTOR	⚠ (GC) **Added**

ADDED

■ CONNECTIONS



To set the power voltage
For areas except (E) (EB) (EG) (GN)



Set the voltage selector to "110 V–127 V" or "220 V–240 V" according to the area in which the unit will be used.
[Use a minus (–) screwdriver]

Note:
Note that this unit will be seriously damaged if this setting is not made correctly.

About the cooling fan

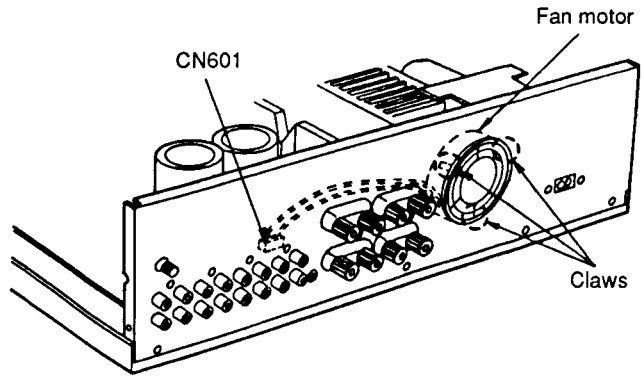
There is no cooling fan for some countries.
The cooling fan operates at high power output levels only.

■ DISASSEMBLY INSTRUCTIONS

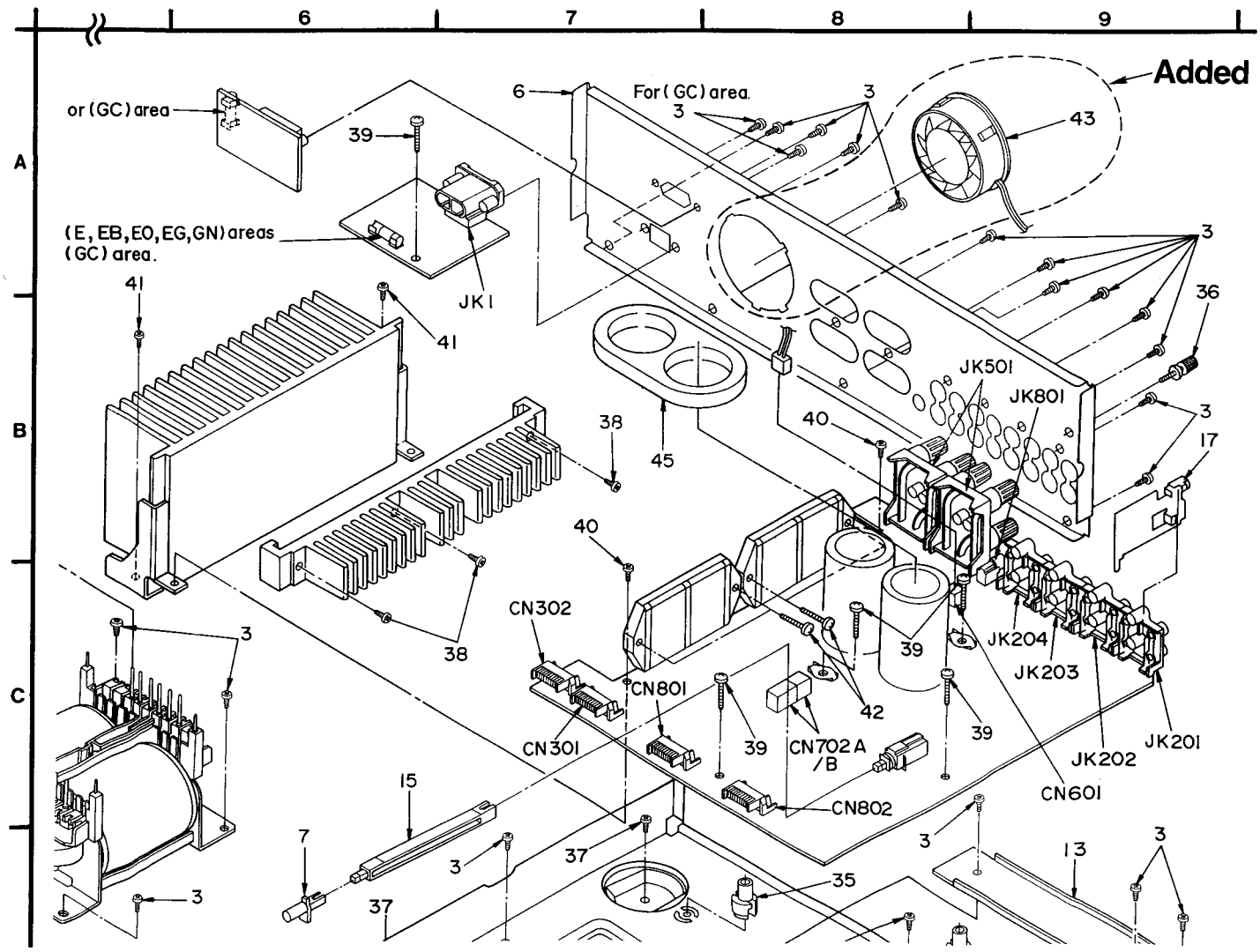
"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 16	Removal of the fan motor
Procedure 1→16	

1. Remove the 1 connector (CN601).
2. Release the 3 claws.



■ CABINET PARTS LOCATION



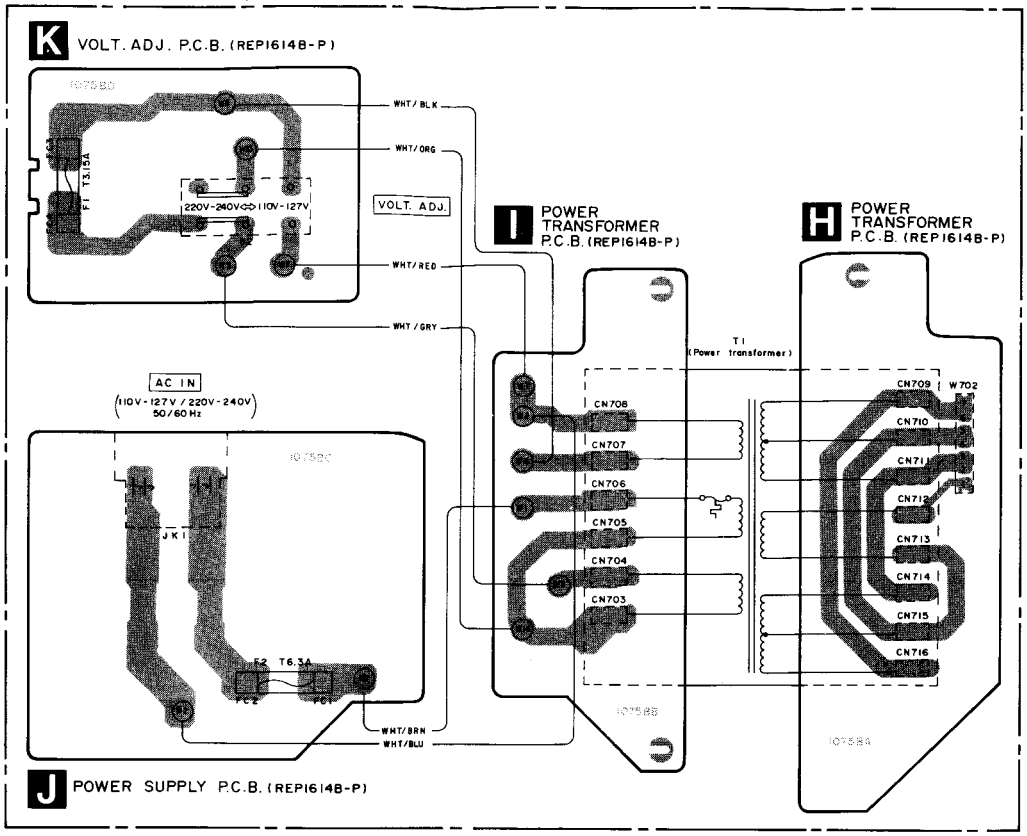
■ PRINTED CIRCUIT BOARD DIAGRAM

1 2 3 4 5

A B C D E F

●This circuit board diagram may be modified at any time with the development of new technology.

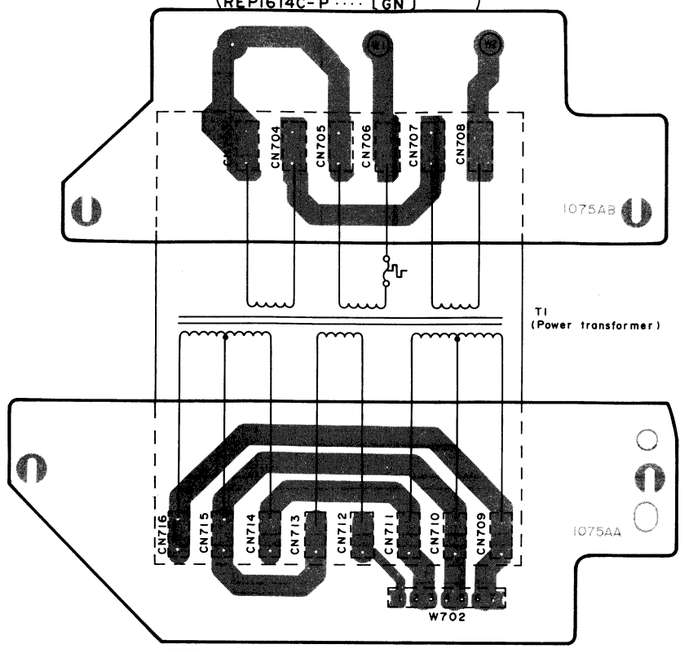
Power Source P.C.B. For (GC) area.



●Terminal guide of IC's, transistors and diodes

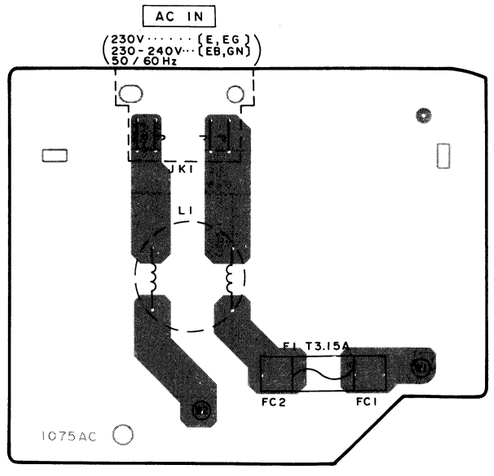
M5218AP	UPC4570C	TC74HC42AP 16Pin TC9163N 28Pin M37470M2215S 32Pin		RSN6000A SVI3205B	BA6218
MN1381STA		2SA933QRSTA 2SA992EFPTA 2SA1123RSTTA 2SC2631RSTTA 2SD592AQRSTA		2SA1309AIRTA 2SC3311AIRTA UN4111TA UN4211TA	2SB1357DEFTA 2SD2037DEFTA
2SK170BLTPE2 2SK301QRSTA	2SJ105GRYTA 2SK330GRYTA	2SK389BG		MA165TA MA167TA MA167ATA MA29WATA MA700ATA 1SS291TA 1SR35200TB	MA4056MTA MA4068LTA
MA4120MTA MA4160MTA	P300DLF	LN014305PH LN018305PH			

I POWER TRANSFORMER (2) P.C.B.
(REPI614A-P ···· (E, EB, EG))
(REPI614C-P ···· (GN))

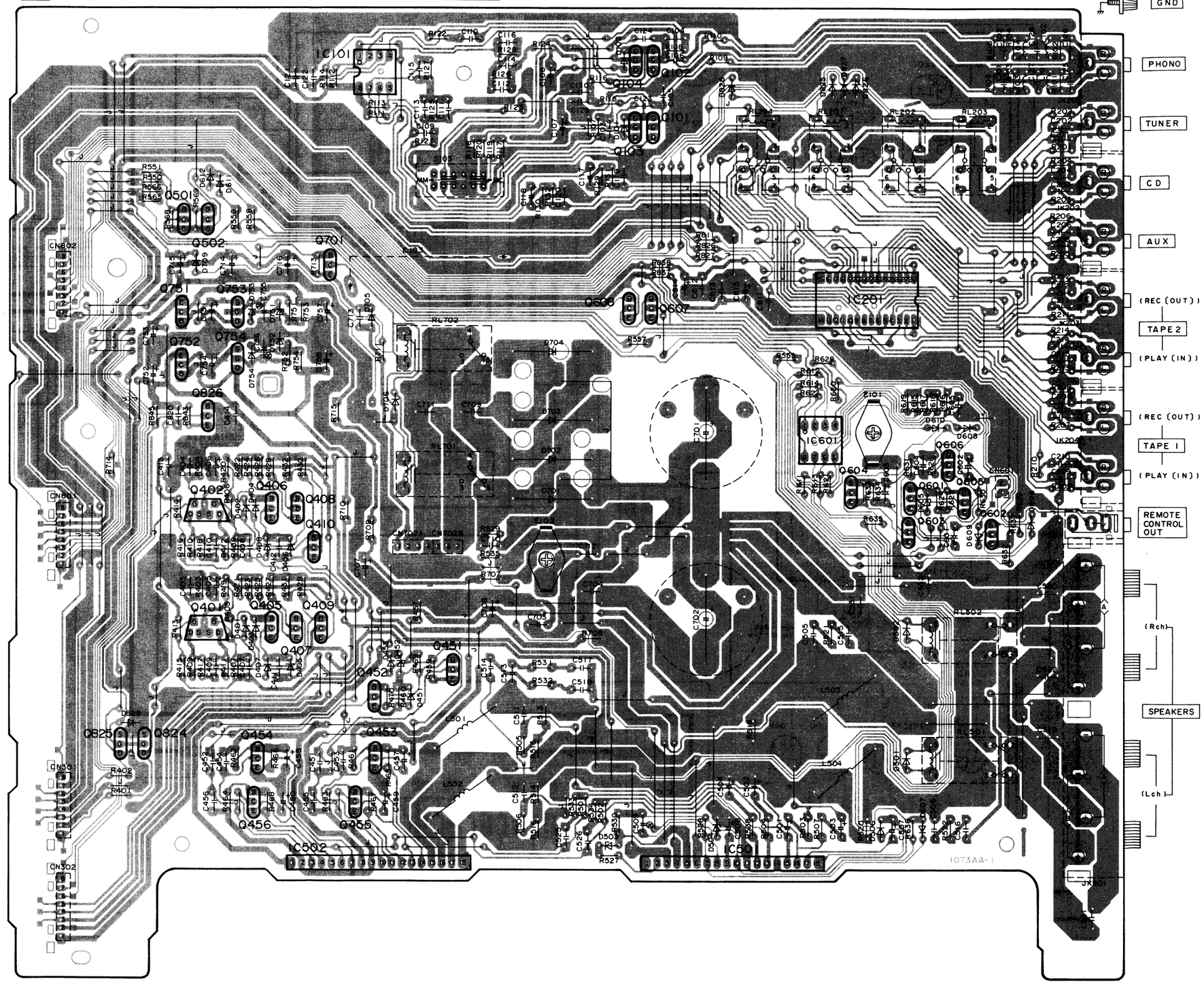


H POWER TRANSFORMER (1) P.C.B.
(REPI614A-P ··· (E, EB, EG))
(REPI614C-P ··· (GN))

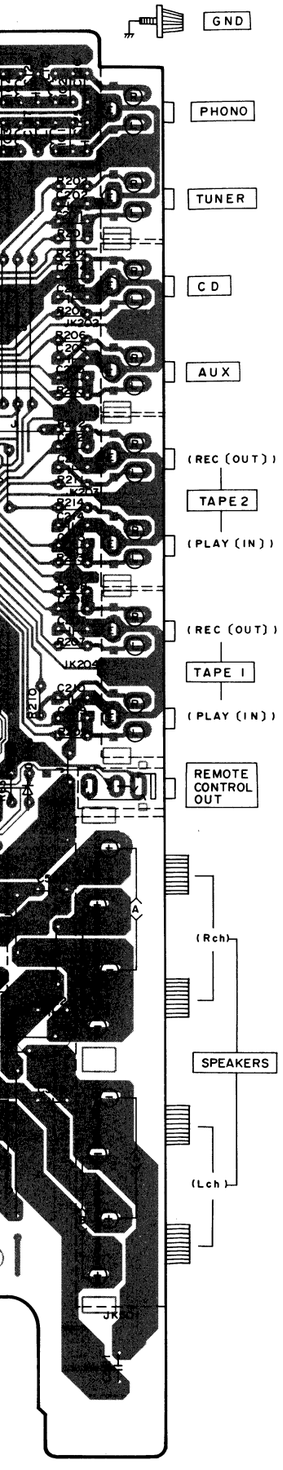
J POWER SUPPLY P.C.B.
(REPI614A-P ··· (E, EB, EG))
(REPI614C-P ··· (GN))



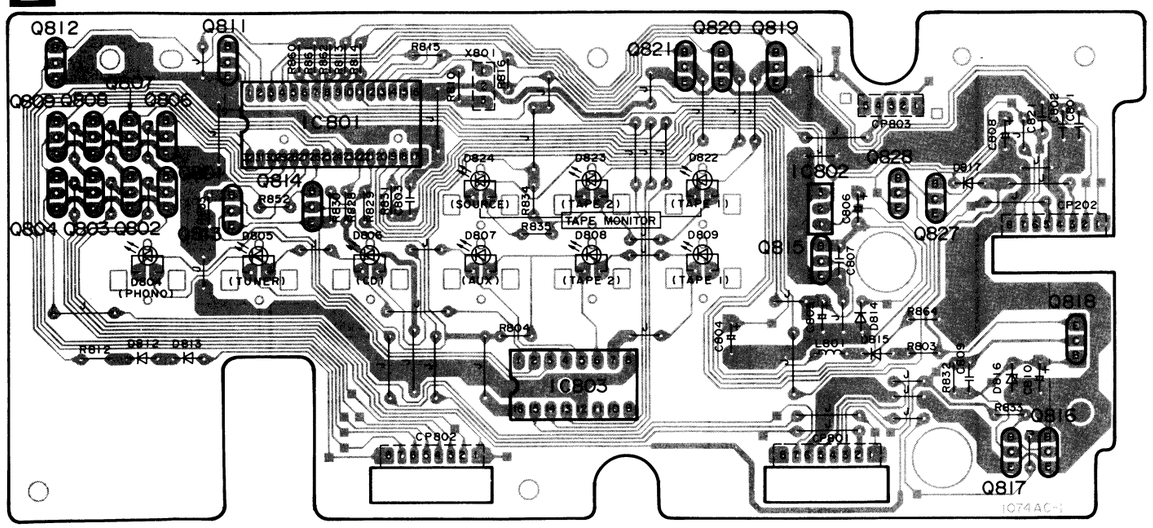
A MAIN P.C.B. (REPI612A-M ··· (E, EG, GC, GN))
(REPI612B-M ··· (EB))



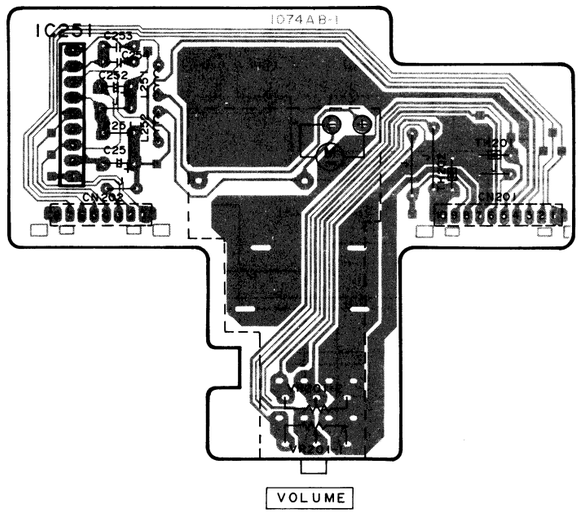
15 16 17 18 19 20 21 22 23 24



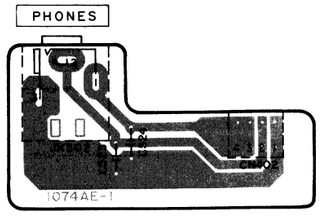
B OPERATION P.C.B. (REPI613A-S)



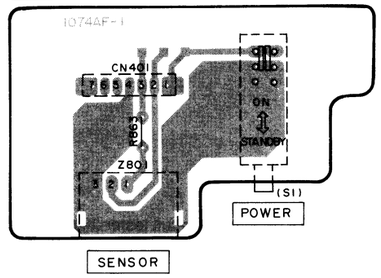
D VOLUME P.C.B. (REPI613A-S)



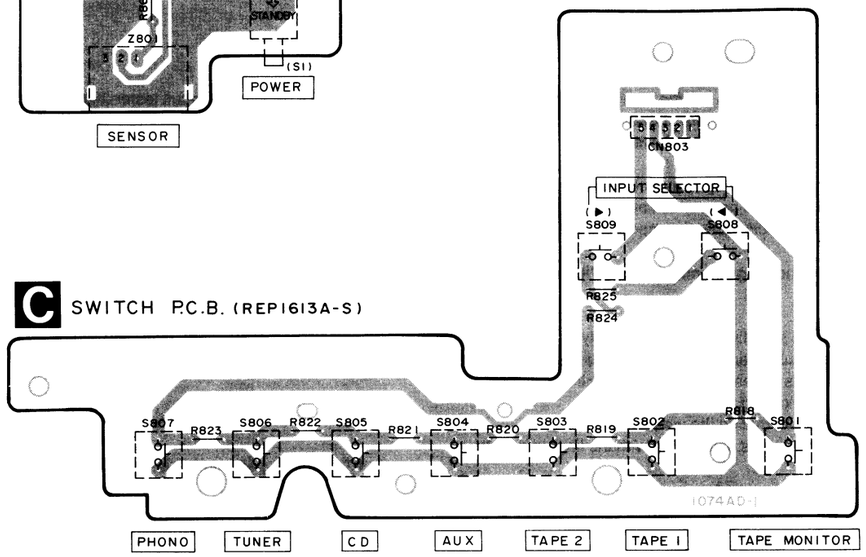
G HEADPHONES JACK P.C.B. (REPI613A-S)



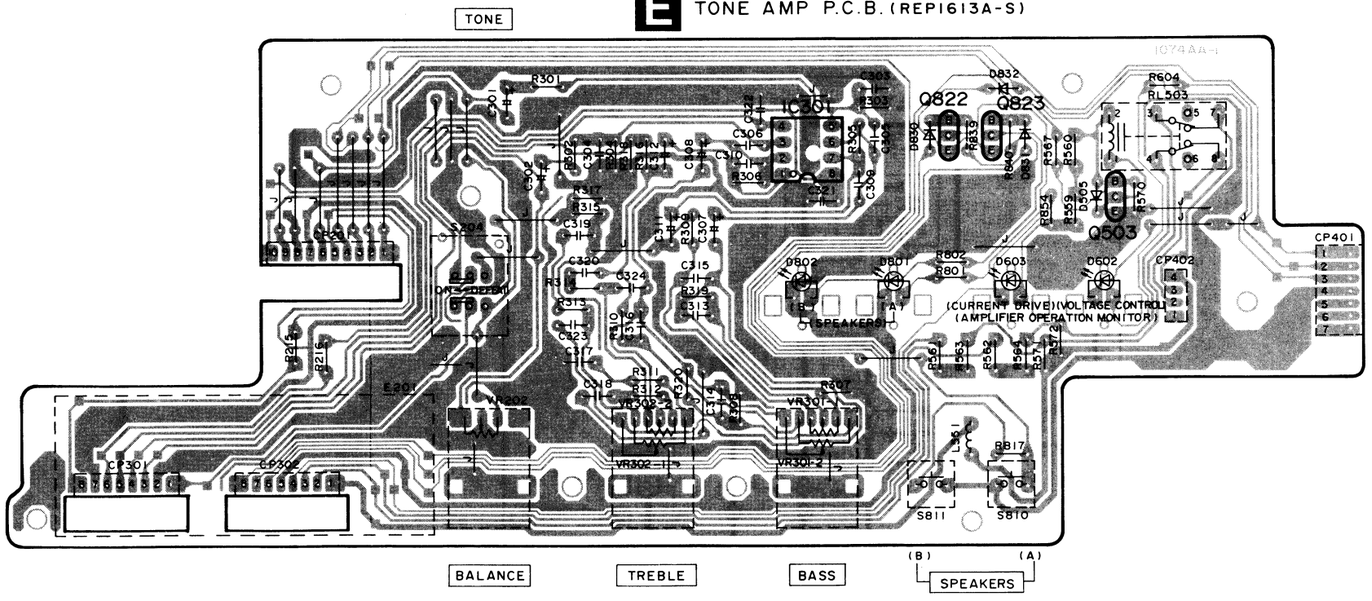
F POWER SWITCH P.C.B. (REPI613A-S)



C SWITCH P.C.B. (REPI613A-S)



E TONE AMP P.C.B. (REPI613A-S)



■ SCHEMATIC DIAGRAM (Parts list on pages 16~19)

Notes:

- ●S1 : Power "STANDBY⏻/ON" switch in "on" position. (POWER, ▙ STANDBY ⏻ ▟ ON)
- ●S2 : Voltage select switch in "220–240 V" position. (VOLT ADJ) for (GC) area
- ●S103 : Phono cartridge select switch in "MC" position. (PHONO SELECTOR)
- ●S204 : Tone control switch in "on" position. (TONE)
- ●S801 : Tape-monitor switch. (TAPE MONITOR)
- ●S802 : Input selectors switch. (TAPE 1)
- ●S803 : Input selectors switch. (TAPE 2)
- ●S804 : Input selectors switch. (AUX)
- ●S805 : Input selectors switch. (CD)
- ●S806 : Input selectors switch. (TUNER)
- ●S807 : Input selectors switch. (PHONO)
- ●S808 : Input selector switch (◀)
- ●S809 : Input selector switch (▶)
- ●S810 : Speaker select switch. (SPEAKERS A)
- ●S811 : Speaker select switch. (SPEAKERS B)

●Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester. No mark: Power ON

●Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

●This schematic diagram may be modified at any time with the development of new technology.

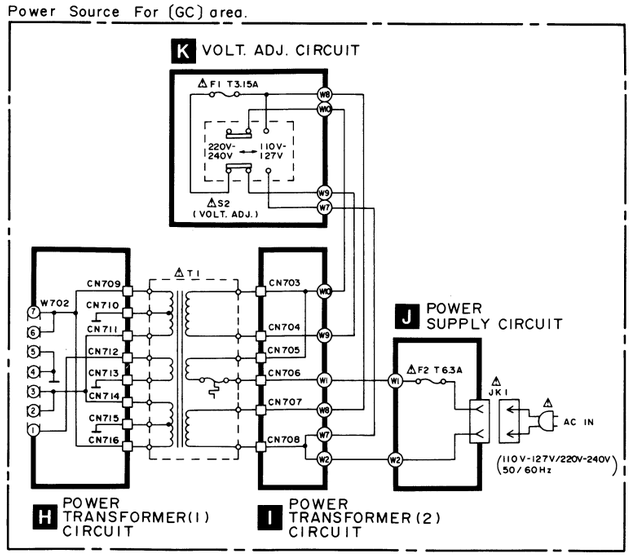
●Caution!
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

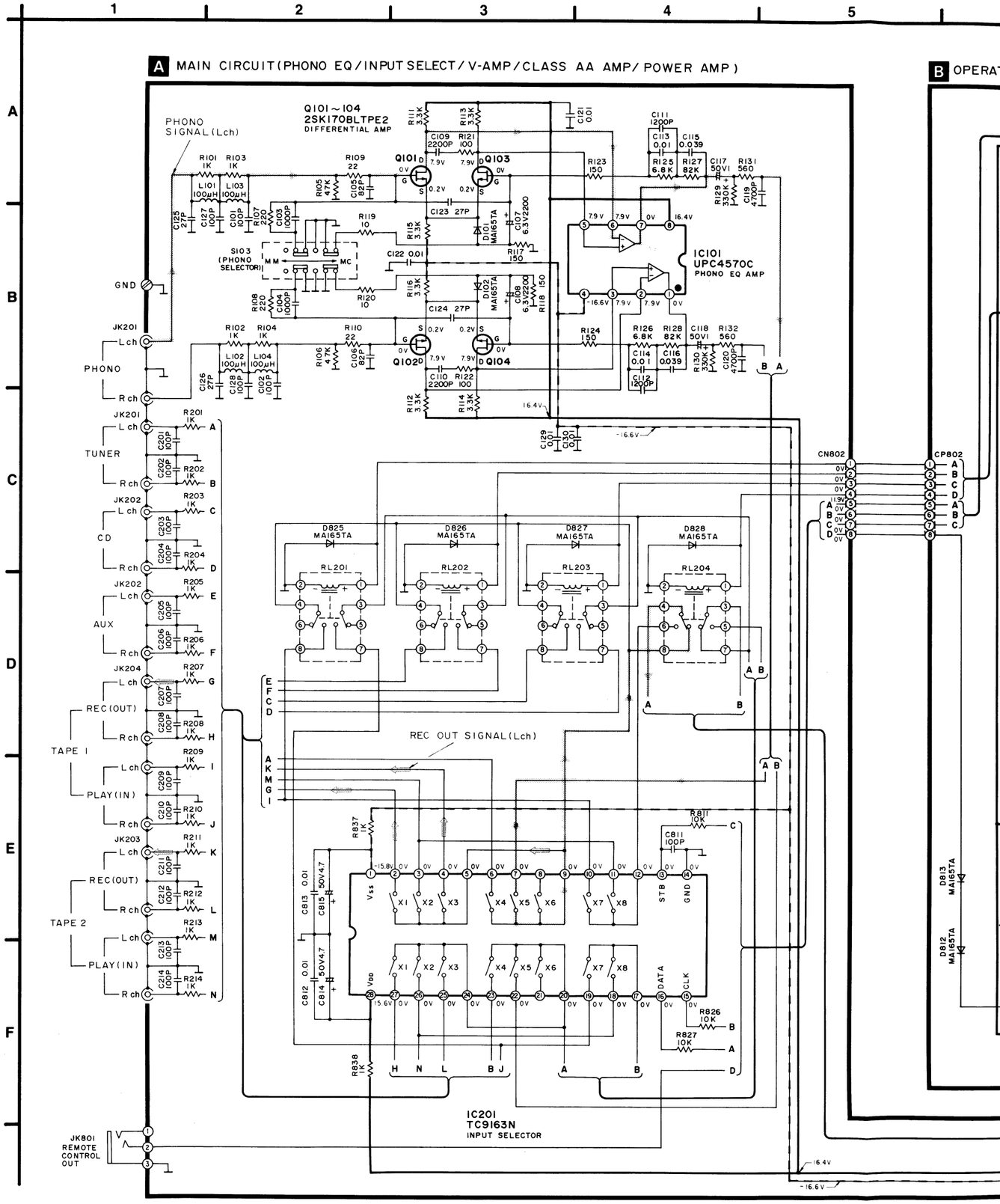
●Voltage and signal line
——— : Positive voltage line.
– – – – : Negative voltage line.
⋯⋯ : Phono signal line.
⇨ : Recording output signal line.

●The supply part number is described alone in the replacement parts list.

Part No.	Production Part No.	Supply Part No.
Z801	RCDHC-237-E	RCDHC-237

Power Source For (GC) area.





5 6 7 8 9 10 11 12 13 14

B OPERATION CIRCUIT

Q801~804 UN4111TA RELAY DRIVE

Q806~809 UN4211TA RELAY DRIVE

Q828 UN4111TA SWITCHING (REMOTE)

Q827 2SC3311A1RTA SWITCHING (REMOTE)

Q814 UN4111TA RELAY DRIVE

Q813 UN4111TA RELAY DRIVE

Q815 UN4211TA RESET

IC802 MN1381STA RESET

IC801 M37470M2215S MICRO COMPUTER

IC803 TC74HC42AP LED DRIVE

Q811,812,819~821 UN4211TA LED DRIVE

D804~809 LN018305PH

D822,823 LN014305PH

D824 LN018305PH

X801 (4MHz)

Q816 UN4211TA POWER SUPPLY CONT.

Q817 2SC3311A1RTA POWER SUPPLY CONT.

Q818 2SD2037DEFTA REGULATOR

C SWITCH CIRCUIT

D VOLUME CIRCUIT

IC251 BA6218 MOTOR DRIVE

E TONE AMP CIRCUIT

Q401,402 2SK389BG FLAT AMP

Q824,825 2SK301QRSTA MUTING

Q405~408 2SC2631RSTTA FLAT AMP

Q409,410 2SA1123RSTTA FLAT AMP

Q826 2SA933QRSTA MUTING CONT.

Q751 2SD2037DEFTA REGULATOR

Q752 2SB1357DEFTA REGULATOR

Q753 2SK330GRYTA STABILIZER

Q754 2SJ105GRYTA STABILIZER

15 16 17 18 19 20 21 22 23 24 25

IC301 UPC4570C TONE AMP

IC502 RSN6000A V-AMP(MOS)

△IC501 SVI3205B POWER AMP

F POWER SWITCH CIRCUIT

G HEADPHONES JACK CIRCUIT

Q823 UN4111TA LED DRIVE

Q822 UN4111TA LED DRIVE

Q503 2SA992EFPTA RELAY DRIVE

Q502 2SA992EFPTA RELAY DRIVE

Q501 2SA992EFPTA RELAY DRIVE

Q701 2SA992EFPTA RELAY DRIVE

Q607 UN4111TA MOTOR CONT.

Q608 UN4211TA MOTOR CONT.

Q455 2SA1309AIRTA CLASS AA AMP

Q456 2SA1309AIRTA CLASS AA AMP

Q453 2SC3311AIRTA CLASS AA AMP

Q454 2SC3311AIRTA CLASS AA AMP

Q451 2SC2631RSTTA CURRENT STABILIZER

Q452 2SC2631RSTTA CURRENT STABILIZER

D701~704 P300DLF

JK502 HEADPHONES

Z801 RCDHC-237-E (REMOTE SENSOR)

S204 (TONE)

S1 (POWER)

20 21 22 23 24 25 26 27 28 29

F POWER SWITCH CIRCUIT

G HEADPHONES JACK CIRCUIT

H POWER TRANSFORMER(1) CIRCUIT

I POWER TRANSFORMER(2) CIRCUIT

J POWER SUPPLY CIRCUIT

Q822 UN4111TA LED DRIVE

Q503 2SA992EFPTA RELAY DRIVE

Q502 2SA992EFPTA RELAY DRIVE

Q501 2SA992EFPTA RELAY DRIVE

Q701 2SA992EFPTA RELAY DRIVE

Q605,606 2SC3311AIRTA MOTOR DRIVE

Q602,603 2SA933QRSTA MOTOR DRIVE

Q607 UN4111TA MOTOR CONT.

Q608 UN4211TA MOTOR CONT.

Q601 2SD592AQRSTA MOTOR DRIVE

Q604 2SA933QRSTA MOTOR DRIVE

IC601 M5218AP MOTOR DRIVE

△IC501 SV13205B POWER AMP

Z801 RCDHC-237-E (REMOTE SENSOR)

JK502 HEADPHONES

JK501 SPEAKERS

FAN MOTOR

AC IN

(230V····(E, EG)
230–240V····(EB, GN)
50/60Hz

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y: Supply period for three years from termination of production.
*The "(SF)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	UPC4570C	I. C, PHONO EQ. AMP.	
IC201	TC9163N	I. C, INPUT SELECTOR	
IC251	BA6218	I. C, VOLUME MOTOR DRIVE	
IC301	UPC4570C	I. C, TONE AMP.	
IC501	SVI3205B	I. C, POWER AMP.	⚠
IC502	RSN6000A	I. C, V-AMP.	
IC601	M5218AP	I. C, FAN MOTOR DRIVE	
IC801	M37470M2215S	I. C, MICRO COMPUTER	
IC802	MN1381STA	I. C, RESET	
IC803	TC74HC42AP	I. C, LED DRIVE	
		TRANSISTOR(S)	
Q101-104	2SK170BLTPE2	TRANSISTOR	
Q401, 402	2SK389BG	TRANSISTOR	
Q405-408	2SC2631RSTTA	TRANSISTOR	
Q409, 410	2SA1123RSTTA	TRANSISTOR	
Q451, 452	2SC2631RSTTA	TRANSISTOR	
Q453, 454	2SC3311AIRTA	TRANSISTOR	
Q455, 456	2SA1309AIRTA	TRANSISTOR	
Q501-503	2SA992EFPTA	TRANSISTOR	
Q601	2SD592ANCQ	TRANSISTOR	
Q602-604	2SA933QRSTA	TRANSISTOR	
Q605, 606	2SC3311AIRTA	TRANSISTOR	
Q607	UN4111	TRANSISTOR	
Q608	UN4211	TRANSISTOR	
Q701	2SA992EFPTA	TRANSISTOR	
Q751	2SD2037DEFTA	TRANSISTOR	⚠
Q752	2SB1357DEFTA	TRANSISTOR	⚠
Q753	2SK330GRYTA	TRANSISTOR	⚠
Q754	2SJ105GRYTA	TRANSISTOR	⚠
Q801-804	UN4111	TRANSISTOR	
Q806-809	UN4211	TRANSISTOR	
Q811, 812	UN4211	TRANSISTOR	
Q813, 814	UN4111	TRANSISTOR	
Q815, 816	UN4211	TRANSISTOR	
Q817	2SC3311AIRTA	TRANSISTOR	
Q818	2SD2037DEFTA	TRANSISTOR	⚠
Q819-821	UN4211	TRANSISTOR	
Q822, 823	UN4111	TRANSISTOR	
Q824, 825	2SK301QRS	TRANSISTOR	
Q826	2SA933QRSTA	TRANSISTOR	
Q827	2SC3311AIRTA	TRANSISTOR	
Q828	UN4111	TRANSISTOR	
		DIODE(S)	
D101, 102	MA165	DIODE	
D401-404	MA165	DIODE	
D405, 406	MA167	DIODE	
D407, 408	MA165	DIODE	
D451	MA165	DIODE	
D452	MA4056MTA	DIODE	⚠
D453	MA29WA	DIODE	
D501, 502	MA165	DIODE	
D503, 504	MA4160M	DIODE	⚠
D505	MA165	DIODE	
D506	1SS291TA	DIODE	
D602	LN014305PH	DIODE (LED)	
D603	LN018305PH	DIODE (LED)	
D605	MA4120	DIODE	
D606-610	MA165	DIODE	
D611, 612	MA167	DIODE	
D701-704	P300DLF	DIODE	⚠
D705	1SR35200TB	DIODE	⚠
D706	MA165	DIODE	
D709	MA165	DIODE	⚠
D751, 752	MA4160M	DIODE	⚠
D753, 754	MA165	DIODE	
D801, 802	LN018305PH	DIODE (LED)	
D804-809	LN018305PH	DIODE (LED)	
D812-814	MA165	DIODE	
D815	1SS291TA	DIODE	
D816	MA4068L	DIODE	⚠
D817	MA165	DIODE	
D822, 823	LN014305PH	DIODE (LED)	
D824	LN018305PH	DIODE (LED)	
D825-828	MA165	DIODE	
D829	MA700	DIODE	
D830-832	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR201	EWCPG3020A15	V. R, MAIN VOLUME CONTROL	
VR202	EVJ02QF01G15	V. R, BALANCE	
VR301, 302	EVJYA1F01C15	V. R, BASS/TREBLE CONTROL	
		THERMISTOR(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
TH201, 202	ERTD2ZHL104T	THERMISTOR	
		COMPONENT COMBINATION (S)	
Z801	RCDHC-237	REMOTE SENSOR	
		COIL (S)	
L1	RLQZ271M	COIL	⚠ (E, EB, EG, GN)
L101-104	ELEXT101KA9	COIL	
L251, 252	ELEXT1R0KA9	COIL	
L501-504	SLQY18G-10	COIL	
L551	ELEPK2R2MA	COIL	
L801	ELEXT101KA9	COIL	
		TRANSFORMER (S)	
T1	RTP7L5E001-W	POWER TRANSFORMER	⚠ (E, EG)
T1	RTP7L5B001-W	POWER TRANSFORMER	⚠ (EB, GC, GN)
		OSCILLATOR (S)	
X801	EF0GC4004A4	OSCILLATOR (4MHz)	
		FUSE (S)	
F1	XBA2C31TB0	FUSE, 250V T3.15A	⚠
F2	XBA2C63TB0	FUSE, 250V T6.3A	⚠ (GC)
		SWITCH (ES)	
S1	SSH1238	SW, POWER	
S2	ESD26200A	SW, VOLTAGE SELECTOR	⚠ (GC)
S103	RSP2D010-J	SW, PHONO SELECTOR	
S204	ESB68113	SW, TONE ON/DEFEAT	
S801	EVQ21405R	SW, TAPE MONITOR	
S802	EVQ21405R	SW, INPUT SELECTOR (TAPE1)	
S803	EVQ21405R	SW, INPUT SELECTOR (TAPE2)	
S804	EVQ21405R	SW, INPUT SELECTOR (AUX)	
S805	EVQ21405R	SW, INPUT SELECTOR (CD)	
S806	EVQ21405R	SW, INPUT SELECTOR (TUNER)	
S807	EVQ21405R	SW, INPUT SELECTOR (PHONO)	
S808	EVQ21405R	SW, INPUT SELECTOR (LEFT)	
S809	EVQ21405R	SW, INPUT SELECTOR (RIGHT)	
S810	EVQ21405R	SW, SPEAKERS (A)	
S811	EVQ21405R	SW, SPEAKERS (B)	
		CONNECTOR (S)	
CN201	RJU003K010M1	SOCKET (10P)	
CN202	RJU003K008M1	SOCKET (8P)	
CN301, 302	RJU003K008M1	SOCKET (8P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN401	RJT057W007-1	CONNECTOR (7P)	
CN402	RJU057W004	SOCKET (4P)	
CN601	SJT3213	CONNECTOR (2P)	
CN703-716	RJS1A1101T1	SOCKET (1P)	
CN801, 802	RJU003K008M1	SOCKET (8P)	
CN803	RJU066H05	SOCKET (5P)	
CN702A	RJS1A6604	SOCKET (4P)	
CN702B	RJS1A6603	SOCKET (3P)	
CP201	RJT003K010-1	CONNECTOR (10P)	
CP202	RJT003K008-1	CONNECTOR (8P)	
CP301, 302	RJT003K008-1	CONNECTOR (8P)	
CP401	RJU057W007	SOCKET (7P)	
CP402	RJT057W004-1	CONNECTOR (4P)	
CP801, 802	RJT003K008-1	CONNECTOR (8P)	
CP803	RJT066H05A	CONNECTOR (5P)	
		EARTH TERMINAL (S)	
E101, 102	SNE1004-1	GND PLATE	
E103	SMC949	SHIELD PLATE	
E201	RSC0340	SHIELD PLATE	
		FUSE HOLDER (S)	
FC1, 2	EYF52BC	FUSE HOLDER	
FC3, 4	SJT388	FUSE HOLDER	(GC)
		RELAY (S)	
RL201-204	RSY0014M-0	RELAY	
RL501, 502	RSY0013-0	RELAY	⚠
RL503	RSY0014M-0	RELAY	
RL701, 702	RSY0012M-0	RELAY	⚠
		JACK (S)	
JK1	SJS9236	AC INLET	⚠ (E, EB, EG, GC)
JK1	SJSD16	AC INLET	⚠ (GN)
JK201	SJF3069N	INPUT TERMINAL (PHONO, TUNER)	
JK202	SJF3069N	INPUT TERMINAL (CD, AUX)	
JK203	SJF3069N	IN/OUTPUT TERMINAL (TAPE2)	
JK204	SJF3069N	IN/OUTPUT TERMINAL (TAPE1)	
JK501	RJH4801-1	SPEAKERS TERMINAL	(E, EG, GC, GN)
JK501	RJH4801-2	SPEAKERS TERMINAL	(EB)
JK502	QJA0455ZC-A	HEADPHONES JACK	
JK801	RJJ33TR01	REMOTE CONTROL JACK	

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101-104	ERDS2TJ102	1/4W 1K
R105, 106	ERDS2TJ473	1/4W 47K
R107, 108	ERDS2TJ221	1/4W 220
R109, 110	ERDS2TJ220T	1/4W 22
R111-116	ERDAS3G332T	1/4W 3.3K
R117, 118	ERDS2TJ151	1/4W 150
R119, 120	ERDS2TJ100	1/4W 10
R121, 122	ERDS2TJ101	1/4W 100
R123, 124	ERDS2TJ151	1/4W 150
R125, 126	ERDS2TJ682T	1/4W 6.8K
R127, 128	ERDS2TJ823T	1/4W 82K
R129, 130	ERDS2TJ334	1/4W 330K
R131, 132	ERDS2TJ561	1/4W 560
R201-214	ERDAS3J102T	1/4W 1K
R215, 216	ERDLS2VJ332T	1/4W 3.3K
R251	ERDS1FVJ100T	1/2W 10 ⚠
R301, 302	ERDAS3G561	1/4W 560
R303, 304	ERDS2TJ104	1/4W 100K
R305, 306	ERDS2TJ224T	1/4W 220K
R307, 308	ERDS2TJ392T	1/4W 3.9K
R309, 310	ERDS2TJ223	1/4W 22K
R311, 312	ERDS2TJ102	1/4W 1K
R313, 314	ERDS2TJ392T	1/4W 3.9K
R315, 316	ERDS2TJ222	1/4W 2.2K
R317, 318	ERDS2TJ391	1/4W 390
R319, 320	ERDS2TJ183T	1/4W 18K
R401, 402	ERDLS2VJ102T	1/4W 1K
R403, 404	ERDAS3G823T	1/4W 82K
R405, 406	ERDLS2VJ102T	1/4W 1K
R407, 408	ERDAS3G184T	1/4W 180K
R409-412	ERDAS3G562T	1/4W 5.6K
R413, 414	ERDAS3G101T	1/4W 100
R415, 416	ERDS2TJ183T	1/4W 18K
R417, 418	ERDAS3J271T	1/4W 270
R419, 420	ERDAS3G822T	1/4W 8.2K
R421, 422	ERDAS3G153T	1/4W 15K
R423-426	ERDAS3G101T	1/4W 100
R427-430	ERDAF2VJ122T	1/4W 1.2K ⚠
R431, 432	ERDAF2VJ101T	1/4W 100 ⚠
R457	ERDS2TJ183T	1/4W 18K
R459, 460	ERDAF2VJ101T	1/4W 100 ⚠
R461-464	ERDS2TJ333	1/4W 33K
R465-468	ERDAF2VJ101T	1/4W 100 ⚠
R469	ERDS2TJ103	1/4W 10K
R470	ERDS2TJ102	1/4W 1K
R501, 502	ERDS2TJ392T	1/4W 3.9K
R503, 504	ERDAF2VJ121T	1/4W 120 ⚠
R505, 506	ERDS2TJ392T	1/4W 3.9K
R507, 508	ERDAF2VJ121T	1/4W 120 ⚠
R513-516	ERDAF2VJ100T	1/4W 10 ⚠
R519, 520	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R521, 522	ERDS1FVJ100T	1/2W 10 ⚠
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ824	1/4W 820K
R529	ERDS2TJ124T	1/4W 120K
R530	ERDS1FVJ472T	1/2W 4.7K ⚠
R531, 532	ERDS1FVJ100T	1/2W 10 ⚠
R533, 534	ERDS2TJ182	1/4W 1.8K
R535	ERDS2TJ473	1/4W 47K
R550, 551	ERDS2TJ222	1/4W 2.2K
R555-558	ERG1SJ681E	1W 680
R559	ERG1SJ152E	1W 1.5K
R560	ERG1SJ182E	1W 1.8K
R561, 562	ERG1SJ151E	1W 150
R563, 564	ERG1SJ181E	1W 180
R565-570	ERDS2TJ223	1/4W 22K
R571, 572	ERDS2TJ470	1/4W 47
R604	ERDS2TJ181T	1/4W 180
R611-614	ERDAS3G223T	1/4W 22K
R615-618	ERDAS3G103T	1/4W 10K
R619	ERDS2TJ151	1/4W 150
R620	ERDS2TJ153	1/4W 15K
R621, 622	ERDS2TJ223	1/4W 22K
R624	ERDS2TJ332	1/4W 3.3K
R625	ERDS2TJ223	1/4W 22K
R626	ERDS2TJ103	1/4W 10K
R628	ERDS2TJ564	1/4W 560K
R629	ERDS2TJ473	1/4W 47K
R630	ERDS2TJ120T	1/4W 12
R631	ERDS2TJ223	1/4W 22K
R632	ERDS2TJ102	1/4W 1K
R633	ERDS2TJ563	1/4W 56K
R634	ERDS2TJ223	1/4W 22K
R635, 636	ERDS2TJ103	1/4W 10K
R637	ERDS2TJ222	1/4W 2.2K
R707, 708	ERDAF2VJ6R8T	1/4W 6.8 ⚠
R709	ERDAF2VJ470T	1/4W 47 ⚠
R710	ERDS1FVJ331T	1/2W 330 ⚠
R711	ERDS2TJ222	1/4W 2.2K
R713	ERDS2TJ223	1/4W 22K
R714	ERDS2TJ222	1/4W 2.2K
R715	ERDS1FVJ331T	1/2W 330 ⚠
R751, 752	ERDS2TJ105T	1/4W 1M
R753, 754	ERDS1FVJ103T	1/2W 10K ⚠
R801, 802	ERDS2TJ391	1/4W 390
R803	ERDS2TJ390	1/4W 39
R804	ERDS2TJ331	1/4W 330
R810	ERDS2TJ102	1/4W 1K
R811	ERDS2TJ103	1/4W 10K
R812	ERDS2TJ102	1/4W 1K
R813-817	ERDS2TJ103	1/4W 10K
R818	ERDS2TJ821	1/4W 820
R819	ERDS2TJ102	1/4W 1K
R820	ERDS2TJ122	1/4W 1.2K
R821	ERDS2TJ152	1/4W 1.5K
R822	ERDS2TJ182	1/4W 1.8K
R823	ERDS2TJ222	1/4W 2.2K
R824	ERDS2TJ332	1/4W 3.3K
R825	ERDS2TJ472	1/4W 4.7K
R826, 827	ERDS2TJ103	1/4W 10K
R828, 829	ERDS2TJ102	1/4W 1K
R830	ERDS2TJ223	1/4W 22K
R831	ERDS2TJ104	1/4W 100K
R832	ERDS2TJ102	1/4W 1K
R833	ERDS2TJ103	1/4W 10K
R834	ERDS2TJ221	1/4W 220
R835	ERDS2TJ181T	1/4W 180
R837, 838	ERDS2TJ102	1/4W 1K
R839, 840	ERDS2TJ682T	1/4W 6.8K
R843	ERDS2TJ472	1/4W 4.7K
R845	ERDS2TJ334	1/4W 330K
R852, 853	ERDS2TJ103	1/4W 10K
R854	ERDS2TJ471	1/4W 470
R860-862	ERDS2TJ104	1/4W 100K
R863	ERDS2TJ102	1/4W 1K
R864	ERDS2TJ223	1/4W 22K
		CAPACITORS
C101, 102	ECBT1H101KB5	50V 100P
C103, 104	ECBT1H102KB5	50V 1000P
C105, 106	ECBT1H820KB5	50V 82P
C107, 108	ECA0JM222B	6.3V 2200U
C109, 110	ECKW1H222KB5	50V 2200P
C111, 112	ECQB1H122JF3	50V 1200P
C113, 114	ECQB1H103JF3	50V 0.01U
C115, 116	ECQB1H393JF3	50V 0.039U
C117, 118	ECA1HPXS010B	50V 1U
C119, 120	ECQB1H472JF3	50V 4700P
C121, 122	ECQB1H103JF3	50V 0.01U
C123-126	ECBT1H270J5	50V 27P
C127, 128	ECBT1H101KB5	50V 100P
C129, 130	ECBT1E103ZF	25V 0.01U
C201-214	ECKT1H101KB	50V 100P

Ref. No.	Part No.	Values & Remarks
C251, 252	ECEA0JKA101B	6.3V 100U
C253, 254	ECBT1H104ZF5	50V 0.1U
C301, 302	ECA1HPXS3R3B	50V 3.3U
C303, 304	ECCR1H101K5	50V 100P
C305, 306	ECBT1H820KB5	50V 82P
C307, 308	ECA1HPXS4R7B	50V 4.7U
C309, 310	ECBT1H390J5	50V 39P
C311, 312	ECA1CPXS100B	16V 10U
C313, 314	ECQV1H823JM3	50V 0.082U
C315, 316	ECQB1H153JF3	50V 0.015U
C317, 318	ECQB1H183JF3	50V 0.018U
C319, 320	ECQB1H222JF3	50V 2200P
C321, 322	ECBT1E223ZF	25V 0.022U
C323, 324	ECBT1H121KB5	50V 120P
C403, 404	ECKR1H271KB5	50V 270P
C405, 406	ECA1CPXS470B	16V 47U
C407, 408	ECCR1H070C5	50V 7P
C409, 410	ECKR1H391KB5	50V 390P
C411, 412	ECCR1H030C5	50V 3P
C413, 414	ECQB1H222JF3	50V 2200P
C451, 452	ECKR1H333ZF5	50V 0.033U
C453-456	ECCV2H680K	500V 68P
C457-460	ECEA1HKA3R3B	50V 3.3U
C501-504	ECA0JPXS101B	6V 100U
C505, 506	ECQV1H473JM3	50V 0.047U
C507	ECEA1CKA101B	16V 100U
C508	ECA1HM470B	50V 47U
C509	ECEA1HN100SB	50V 10U
C511, 512	ECBT1H270J5	50V 27P
C513-518	ECQV1H473JM3	50V 0.047U
C519-522	ECQB1H393JF3	50V 0.039U
C523, 524	ECBT1H102KB5	50V 1000P
C525, 526	ECKD1H821KB	50V 820P
C531, 532	ECBT1C332KR5	16V 3300P
C601	ECEA1HKAR47B	50V 0.47U
C602	ECEA1CKA100B	16V 10U
C603	ECEA1HKA3R3B	50V 3.3U
C604	ECEA1HKA010B	50V 1U
C605	ECEA0JKA331Q	6.3V 330U
C701, 702	ECETX1J123WM	63V 12000U ⚠
C703, 704	ECHR1H103JZ3	50V 0.01U
C707, 708	ECA1JPXH560B	63V 56U
C709, 710	ECQE2334KF3	250V 0.33U
C711	ECQE2104KF3	250V 0.1U
C712	ECBT1C103NS5	16V 0.01U
C713	ECBT1H104ZF5	50V 0.1U
C714	ECA1CM471B	16V 470U
C715	ECEA1HKA010B	50V 1U
C716	ECA1CM102B	16V 1000U ⚠
C751-754	ECA1EPXS470B	25V 47U
C755, 756	ECEA1HBZ4R7B	50V 4.7U
C757, 758	ECA2APXS100B	100V 10U

Ref. No.	Part No.	Values & Remarks
C801-803	ECBT1C103NS5	16V 0.01U
C804	ECEA0JU102	6.3V 1000U
C805	ECEA1HKAR47B	50V 0.47U
C806	ECEA1HKA2R2B	50V 2.2U
C807	ECBT1H102KB5	50V 1000P
C808	ECEA0JKA101B	6.3V 100U
C809	ECBT1C103NS5	16V 0.01U
C810	ECEA1AKA470B	10V 47U
C811	ECBT1H101KB5	50V 100P
C812, 813	ECKR1H103ZF5	50V 0.01U
C814, 815	ECA1HPXS4R7B	50V 4.7U
C820	ECQV1H224JM3	50V 0.22U
C821	ECBT1H473ZF5	50V 0.047U

Printed in Japan
F930611000FF/YU/TN

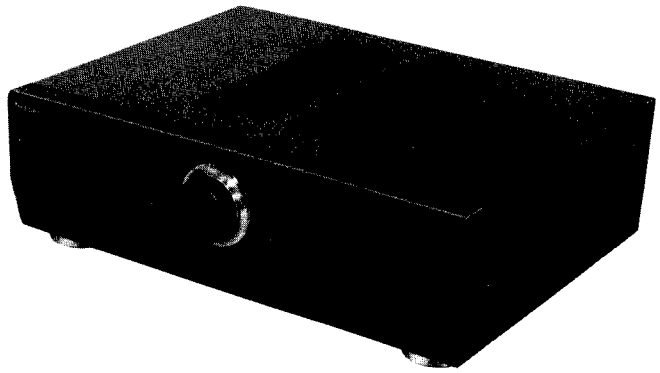
ORDER NO. AD9305162C8

Service Manual

Amplifier

Stereo Integrated Amplifier

SU-A800



Colour

(K)	Black Type

Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	
(EO)	Switzerland	
(GC)	Asia, Latin America, Middle Near East and Africa	
(GN)	Oceania	

SPECIFICATIONS (DIN 45 500)

20 Hz~20 kHz continuous power output	
both channels driven	2×55 W (8Ω)
1 kHz continuous power output	
both channels driven (THD: 1%)	2×70 W (8Ω)
	2×100 W (4Ω)
63 Hz~12.5 kHz continuous power output	
both channels driven (THD: 0.7%)	2×65 W (8Ω)
	2×85 W (4Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.01% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)	
rated power	0.007% (8 Ω)
Residual hum and noise	1 mV
Damping factor	60 (8 Ω), 30 (4 Ω)
Headphones output level/impedance	540 mV/47 Ω
Load impedance	
A or B, BI-WIRING	4 Ω~16 Ω
A and B	8 Ω~16 Ω
Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
PHONO MC	170 μV/220Ω
TUNER, CD, AUX, TAPE 1, TAPE 2	150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)	
PHONO MM	160 mV (IHF '66)
PHONO MC	12 mV (IHF '66)
S/N (rated power, 4Ω)	
PHONO MM	78 dB (85 dB, IHF '66)
PHONO MC	64 dB (S=250 μV, 66 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE2	91 dB (100 dB, IHF '66)
S/N at −26 dB power (4Ω)	
PHONO MM	68 dB
PHONO MC	63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2	70 dB
S/N at 50 mW power (4Ω)	
PHONO MM	64 dB
PHONO MC	60 dB
TUNER, CD, AUX, TAPE 1, TAPE 2	64 dB

Frequency response	
PHONO MM	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2	3 Hz~80 kHz (+0, −3 dB) +0 dB, −0.3 dB (20 Hz~20 kHz)
Tone controls	
BASS	50 Hz, +10~−10 dB
TREBLE	20 kHz, +10~−10 dB
Output voltage	
TAPE 1, TAPE 2, REC OUT	150 mV
Channel balance (AUX 250 Hz~6.3 kHz)	±1 dB
Channel separation (AUX 1 kHz)	50 dB

■ GENERAL

Power consumption	230 W
Power supply	
For (E) area	AC 50 Hz/60 Hz, 230 V
For (EG), (EB), (EO), (GN) areas	AC 50 Hz/60 Hz, 230 V–240 V
For (GC) area	AC 50 Hz/60 Hz, 110 V–127 V/220 V–240 V
Dimensions (W × H × D)	430×136×365 mm
Weight	8.6 kg

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

■ CONTENTS

	Page
•BEFORE REPAIR	2
•PROTECTION CIRCUITRY	2
•ACCESSORIES	2
•CAUTION FOR AC MAINS LEAD	3
•LOCATION OF CONTROLS	4
•CONNECTIONS	5~7
•DISASSEMBLY INSTRUCTIONS	8~11
•HOW TO CHECK THE MAIN P.C.B.	11
•HOW TO REPLACE THE POWER IC	12
•SCHEMATIC DIAGRAM	13~19
•PRINTED CIRCUIT BOARD DIAGRAM	20~24
•WIRING CONNECTION DIAGRAM	25
•BLOCK DIAGRAM	26
•FUNCTION OF IC TERMINALS	27
•REPLACEMENT PARTS LIST	28~30, 33, 34
•CABINET PARTS LOCATION	31, 32
•PACKAGING	34

■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode is mode should be shown below with respect to supply voltage 230 V/240 V.

Power supply voltage	AC 230 V	AC 240 V	AC 110~127 V	AC 220~240 V
Consumed current 50 Hz	60~350 mA	50~340 mA	100~550 mA	50~340 mA

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
*No sound is heard when the power is switched ON.
*Sound stops during a performance.
The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

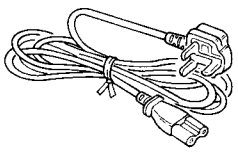
For areas except (E) (EB) (EG) (EO) (GN)

CAUTION:
The AC voltage differs according to the area.
Be sure to set the proper voltage in your area before use.
(For details, please refer to page 6.)

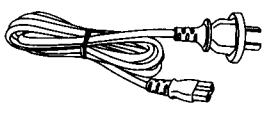
■ ACCESSORIES Check the packing carton for these accessories.

• AC power supply cord 1

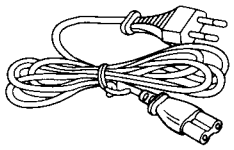
(VJA0733) For (EB) area



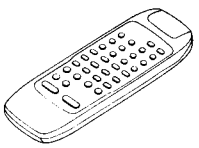
(RJA0036-K) For (GN) area



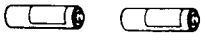
(RJA0019-2K) For (E), (EG), (EO) and (GC) areas



• Remote control transmitter (EUR642210) 1

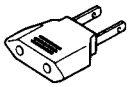


• Batteries 2
UM-4 (AAA, R03)
Note: These are available on sale route.



• Power plug adaptor 1

(SJP5213-2) For (GC) area



■ CAUTION FOR AC MAINS LEAD

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

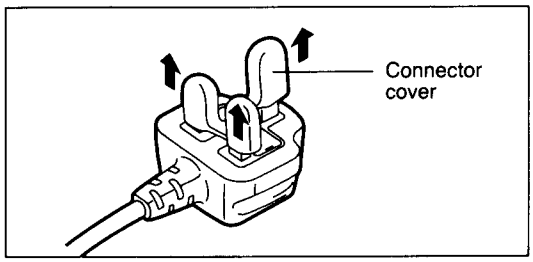
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚.

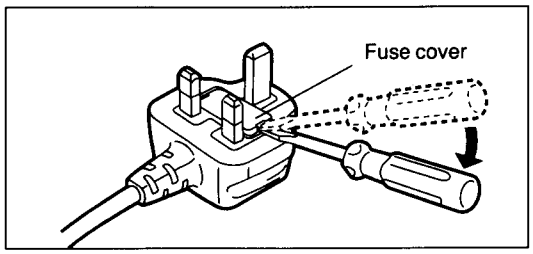
Before use

Remove the connector cover as follows.

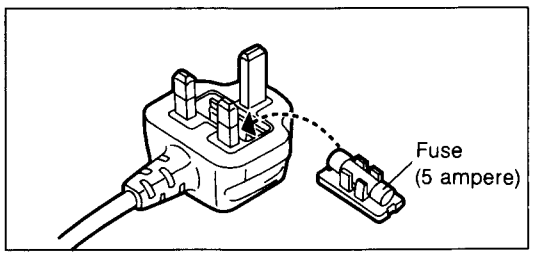


How to replace the fuse

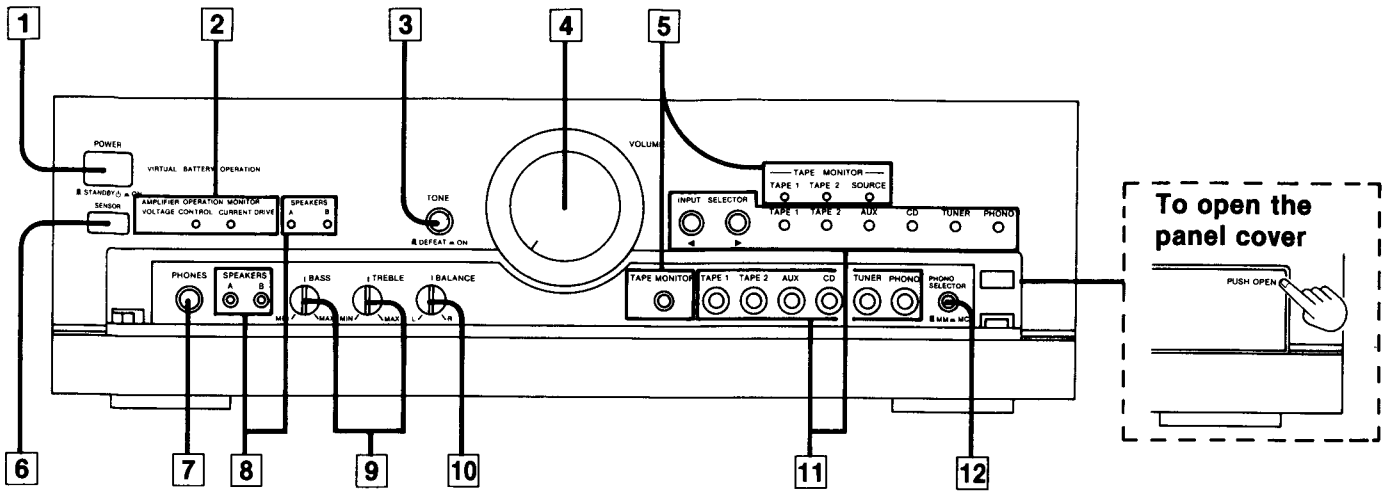
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



■ LOCATION OF CONTROLS



1 Power "STANDBY ⏻/ON" switch (POWER, ▪ STANDBY ⏻ ▬ ON)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

2 Operation indicators (AMPLIFIER OPERATION MONITOR)

These indicators illuminate to indicate the operating condition of this unit.

VOLTAGE CONTROL:

When the power is switched ON, this indicator illuminates when the unit is in the operating condition.

CURRENT DRIVE:

When the power is switched ON, this indicator illuminates after about 4 seconds when the unit is in the operating condition.

If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output or a short-circuit of the positive (+) and negative (−) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.

3 Tone control button (TONE)

This switch is used to set the tone control circuit (bass, treble) to ON or DEFEAT.

4 Volume control (VOLUME)

5 Tape-monitor button/indicators (TAPE MONITOR)

This button is used to monitor the recorded sound during recording.

TAPE 1

Set to this position to monitor the sound from the equipment connected to the "TAPE 1" terminals.

TAPE 2

Set to this position to monitor the sound from the equipment connected to the "TAPE 2" terminals.

SOURCE

Set to this position to listen to a phono disc, radio broadcast, compact disc, etc.

6 Remote control signal receptor (SENSOR)

Receives the signals from the remote control.

7 Headphones jack (PHONES) (∅6, 47Ω)

8 Speaker select buttons/indicators (SPEAKERS)

These select buttons are used to select the speakers to be used.

9 Tone controls (BASS/TREBLE)

The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

10 Balance control (BALANCE)

This control is used to adjust the left/right volume balance.

11 Input selectors/indicators (INPUT SELECTOR)

These selectors are used to select the sound source to be heard, such as a disc, radio broadcast, etc.

The input source can be selected either by sequentially changing the selection or by direct selection.

12 Phono cartridge selector (PHONO SELECTOR)

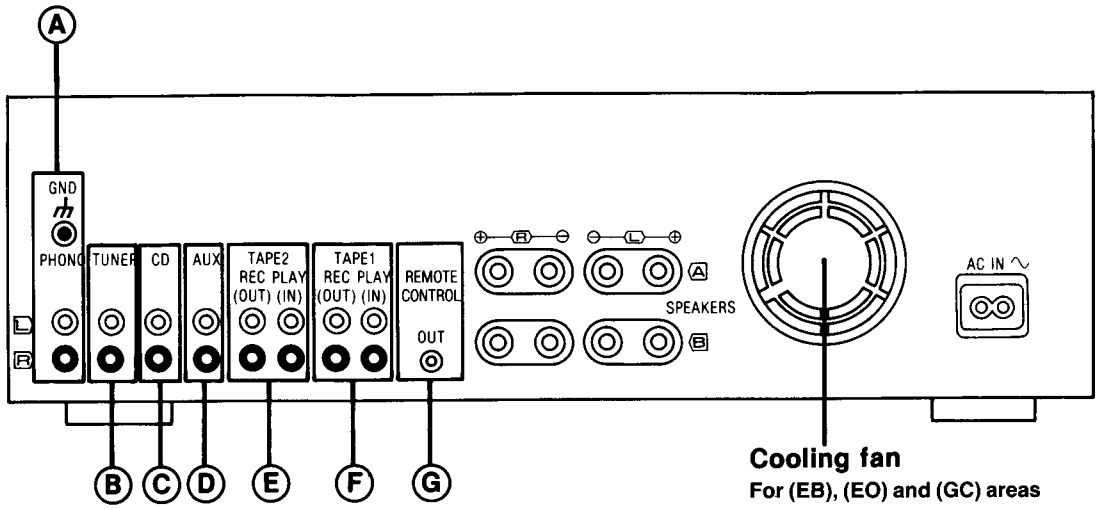
This selector should be set to the position which corresponds to the type of cartridge used on the turntable.

■ CONNECTIONS

To connect to each terminal

Make connections to each component in the system by using stereo connection cables (not included).

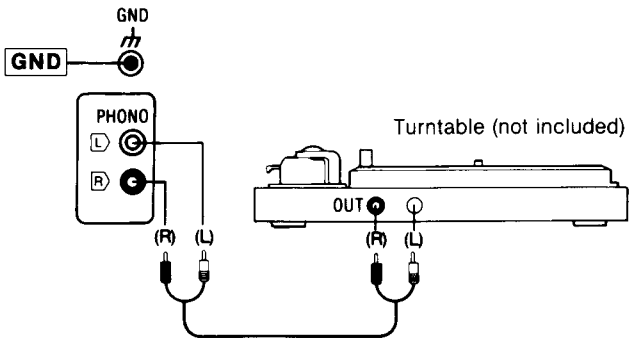
Stereo connection cable White (L) / Red (R)



•Phono input capacitance is about 470 pF.

Ⓐ "PHONO" terminals

Connect to a turntable.

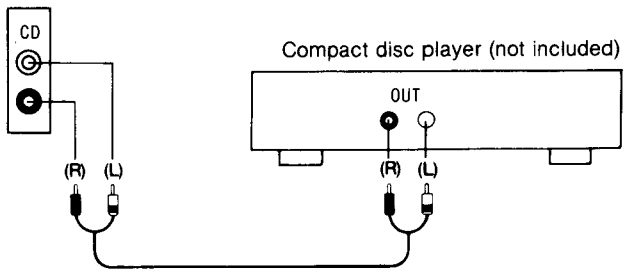


■ "GND" terminal

This terminal is for use with a turntable which has a ground wire.

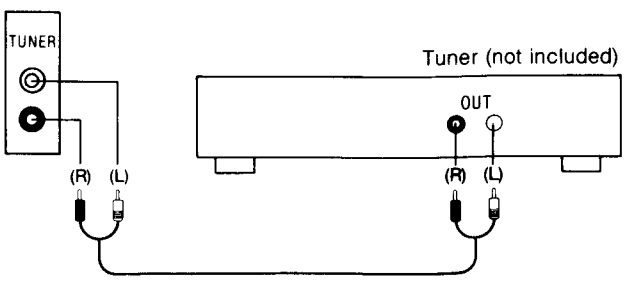
Ⓒ "CD" terminals

Connect to a compact disc player.



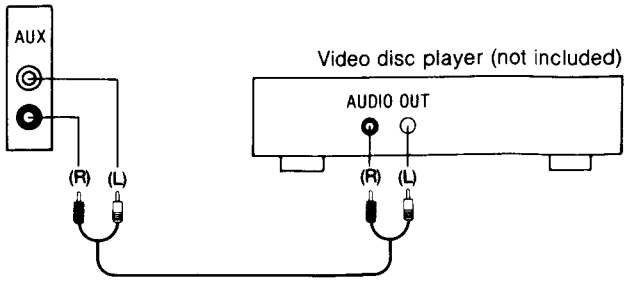
Ⓑ "TUNER" terminals

Connect to a tuner.



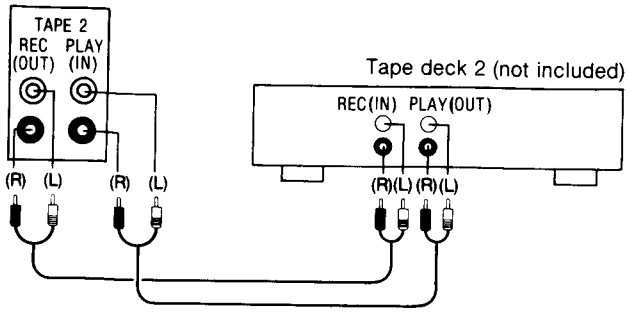
Ⓓ "AUX" terminals

Connect to a component such as a video disc player (audio only connectable), etc.



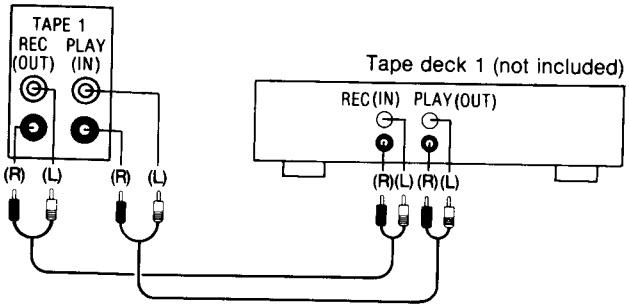
Ⓔ "TAPE 2" terminals

Connect to a second tape deck (Tape deck 2) or a graphic equalizer, etc.



Ⓕ "TAPE 1" terminals

Connect to a first tape deck (Tape deck 1) or a digital compact cassette deck (DCC), etc.

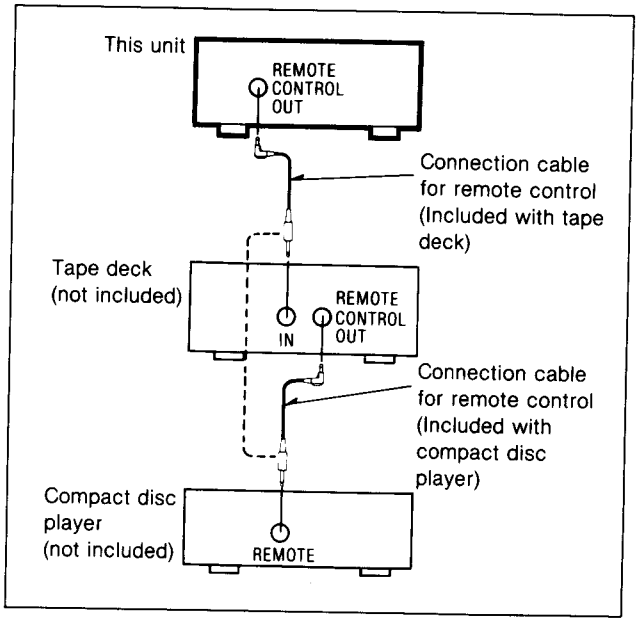


Ⓖ "REMOTE CONTROL OUT" terminal

This terminal can be used only with Technics tape deck and compact disc player which have the appropriate remote control terminal. (Consult your dealer for details.)
Proper connection with remote control connection cables will allow control of some functions from this unit's remote control transmitter.

Connect to a tape deck and/or compact disc player as shown below.

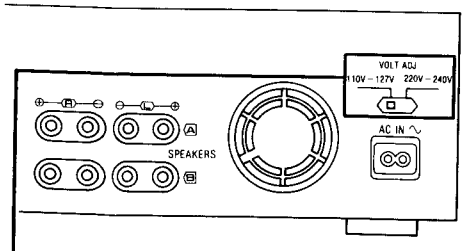
If a tape deck is not being used, the compact disc player can be connected directly (dotted line).


This unit
REMOTE CONTROL OUT
Connection cable for remote control (Included with tape deck)
Tape deck (not included)
IN
REMOTE CONTROL OUT
Connection cable for remote control (Included with compact disc player)
Compact disc player (not included)
REMOTE

Note:
For a compact disc player with a remote control sensor, the above connection is not necessary.

To set the power voltage

For areas except (E), (EB), (EG), (EO) and (GN)



Set the voltage selector to "110 V–127 V" or "220 V–240 V" according to the area in which the unit will be used.
[Use a minus (–) screwdriver]

Note:
Note that this unit will be seriously damaged if this setting is not made correctly.

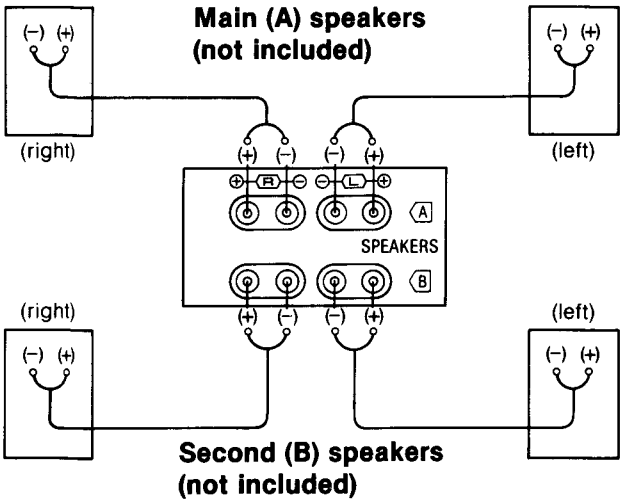
About the cooling fan

There is no cooling fan for some countries.
The cooling fan operates at high power output levels only.

To connect to speakers

One pair of speakers can be connected to the "A" terminals of this unit and one pair to the "B" terminals, or only one pair of bi-wired speakers can be connected to all terminals.

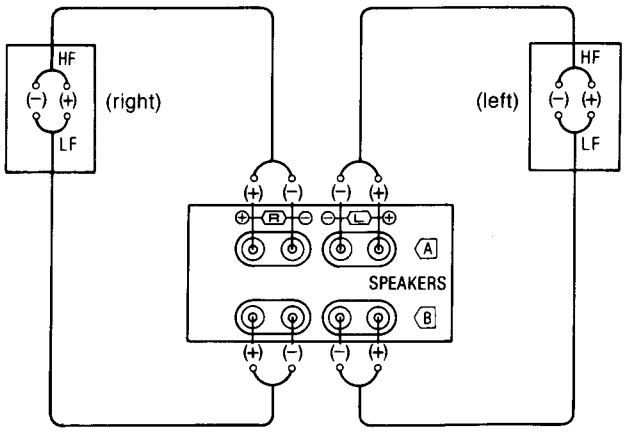
To connect main and/or second speakers



■ Load impedance

- When only the "A" or only the "B" terminals are used: 4 – 16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8 – 16 ohms

To connect bi-wired speakers (not included)



Note: Connect only bi-wired speakers in this way.

■ Load impedance

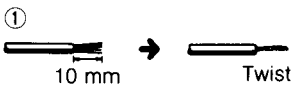
When bi-wired speakers are used: 4 – 16 ohms

■ Bi-wiring

The treble range and the bass range of the speakers are connected to the speaker terminals of the amplifier by using two speaker connection cords separately for each.
As a result of making connections in this way, sound can be reproduced with much greater nuance and detail, with the feelings of air oscillation and deepness of sound provided by an input source that suppresses reciprocal band-range interference.
(Refer to the operating instructions of the speakers.)

To connect cords to terminals

① Strip off the outer covering, and twist the center conductor.

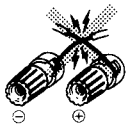


② Turn completely to the left.

③ Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

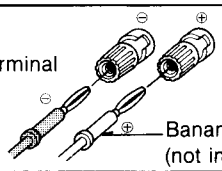
Note: Be sure to only connect positive (+) cords to positive (+) terminals, and negative (–) cords to negative (–) terminals.

Note:
To prevent damage to circuitry, never short-circuit the positive (+) and negative (–) speaker wires.



For (EB) area only

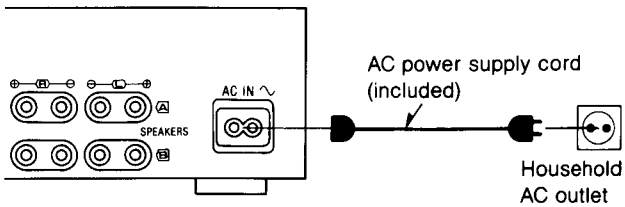
When using banana plugs
Use with the speaker terminal knob tightened completely.



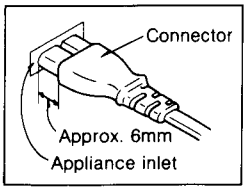
To connect the AC power supply cord (included)

FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE AC POWER SUPPLY CORD ON PAGE 3 BEFORE CONNECTING THE AC POWER SUPPLY CORD.

Connect the AC power supply cord (included) after all other cables and cords are connected.



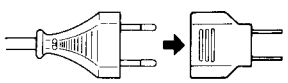
[For areas except (GN)]
Insertion of Connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.



Note:
The configuration of the AC power supply cord differs according to area.

Not supplied for (E), (EB), (EG), (EO) and (GN) areas

If the power plug will not fit your socket, use the power plug adaptor (included).

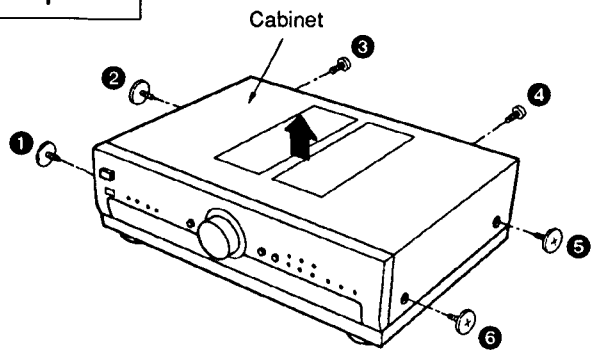


■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1 — **Removal of the cabinet**

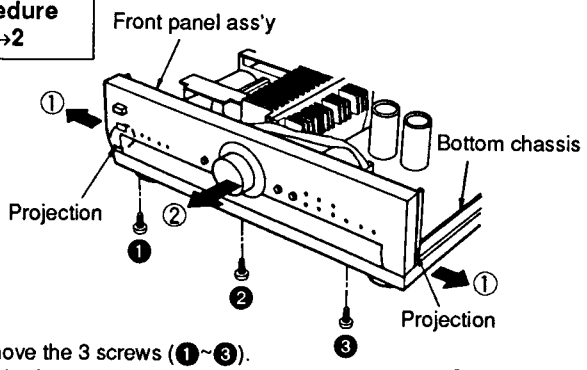
Procedure 1



• Remove the 6 screws (❶~❻).

Ref. No. 2 — **Removal of the front panel ass'y**

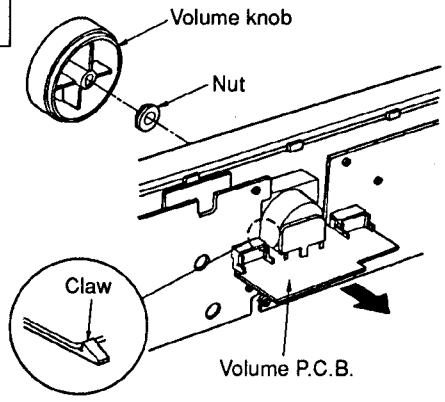
Procedure 1→2



1. Remove the 3 screws (❶~❸).
2. Pull the front panel ass'y in both directions of arrow ① to unlock it from the projection of the bottom chassis.
3. Remove the front panel ass'y in the direction of arrow ②.

Ref. No. 3 — **Removal of the volume P.C.B.**

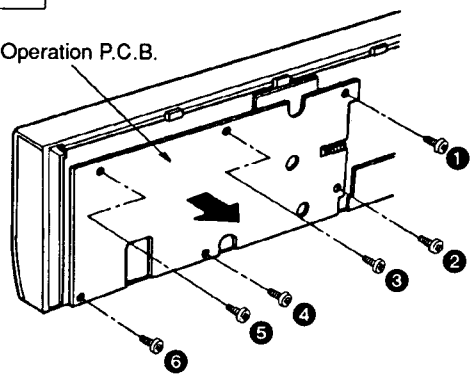
Procedure 1→2→3



1. Pull out the volume knob.
2. Remove the nut.
3. Release the claw and then remove the volume P.C.B. in the direction of arrow.

Ref. No. 4 — **Removal of the operation P.C.B.**

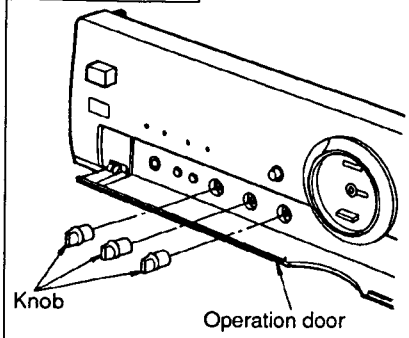
Procedure 1→2→3→4



1. Remove the 6 screws (❶~❻).
2. Remove the operation P.C.B. in the direction of arrow.

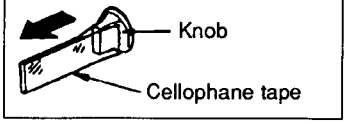
Ref. No. 5 — **Removal of the tone amp P.C.B.**

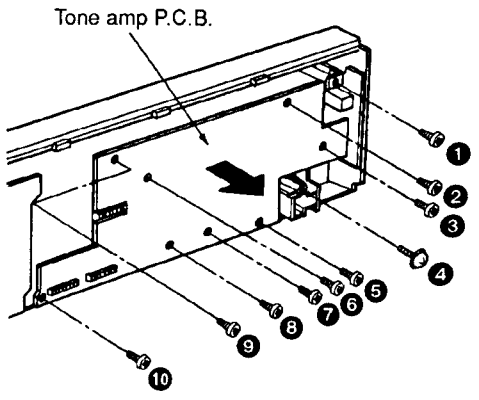
Procedure 1→2→3→5



1. Open the operation door.
2. Remove the 3 knobs.

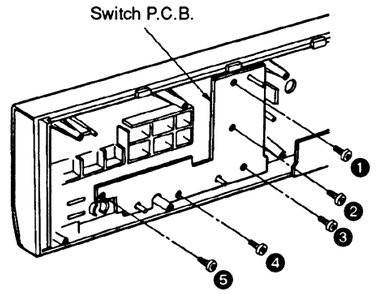
※Removal of the knob
• Stick the cellophane tape to the end of knob as shown bellow and pull out the knob in the direction of arrow.





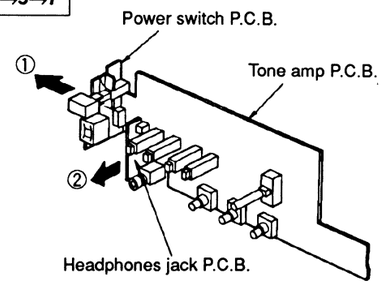
3. Remove the 10 screws (❶~❿).
4. Remove the tone amp P.C.B. in the direction of arrow.

Ref. No. 6	Removal of the switch P.C.B.
Procedure 1→2→3→4→6	



• Remove the 5 screws (❶~❺).

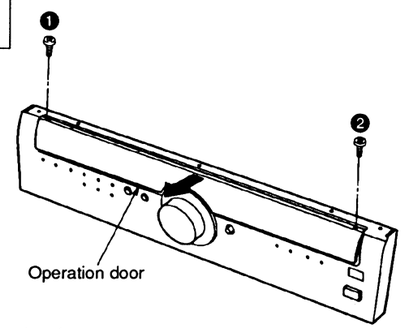
Ref. No. 7	Removal of the power switch P.C.B. and headphones jack P.C.B.
Procedure 1→2→3→5→7	



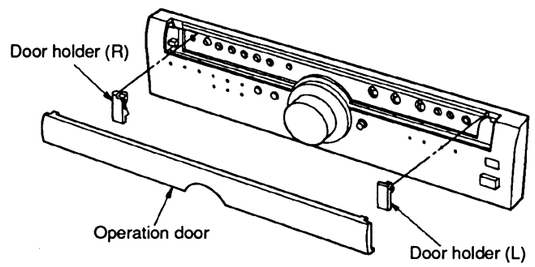
■ Removal of the power switch P.C.B.
• Remove the power switch P.C.B. in the direction of arrow ①.

■ Removal of the headphones jack P.C.B.
• Remove the headphones jack P.C.B. in the direction of arrow ②.

Ref. No. 8	Removal of the operation door
Procedure 1→2→8	

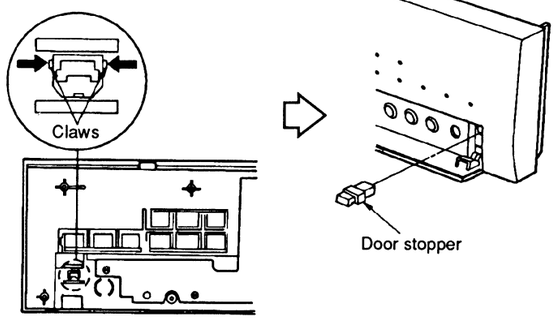


1. Open the operation door.
2. Remove the 2 screws (❶, ❷).
3. Remove the operation door in the direction of arrow.



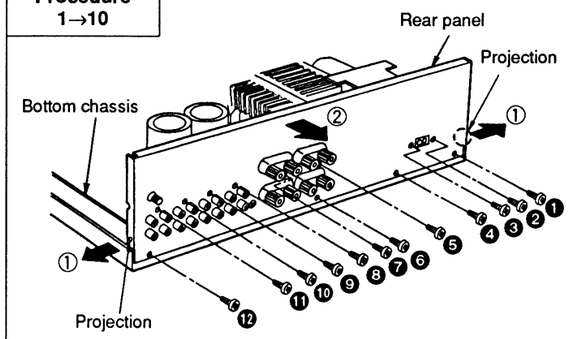
4. Remove the door holder (L) and the door holder (R).

Ref. No. 9	Removal of the door stopper
Procedure 1→2→3→4→9	



• Release the 2 claws.

Ref. No. 10	Removal of the rear panel
Procedure 1→10	

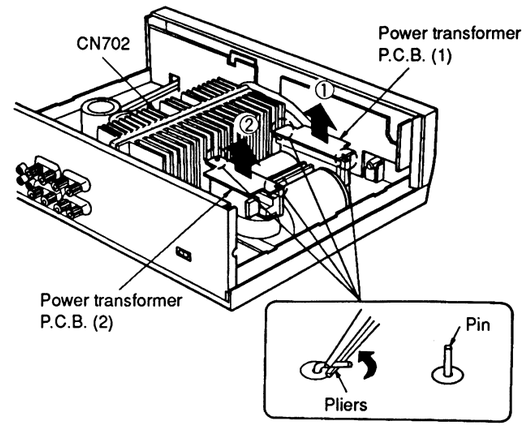


1. Remove the 12 screws (❶~⓬).
2. Pull the rear panel in both directions of arrow ① to unlock it from the projection of the bottom chassis.
3. Remove the rear panel in the direction of arrow ②.

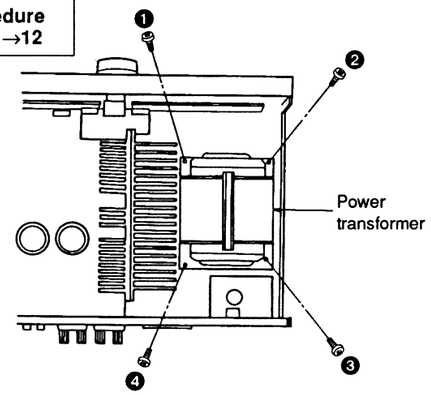
Ref. No. 11	Removal of the power transformer P.C.B. (1) and (2)
Procedure 1→11	

■ Removal of the power transformer P.C.B. (1)
1. Remove the 1 connector (CN702).
2. Straighten the 2 pins with pliers or any similar tools.
3. Pull out the power transformer P.C.B. (1) in the direction of arrow ①.

■ Removal of the power transformer P.C.B. (2)
1. Straighten the 2 pins with pliers or any similar tools.
2. Pull out the power transformer P.C.B. (2) in the direction of arrow ②.

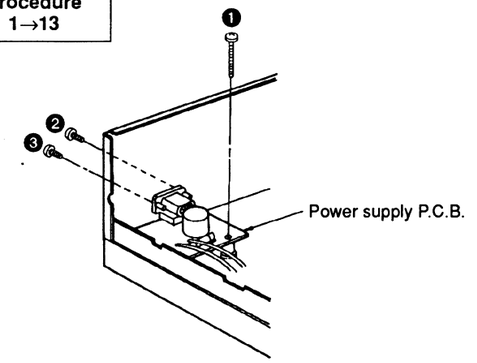


Ref. No. 12	Removal of the power transformer
Procedure 1→11→12	



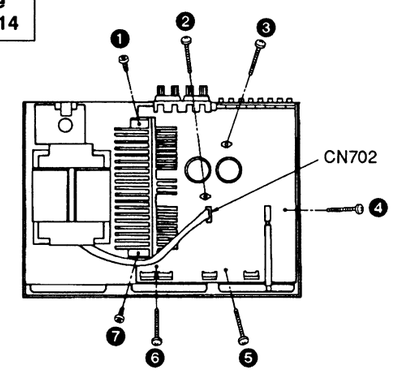
• Remove the 4 screws (❶~❹).

Ref. No. 13	Removal of the power supply P.C.B.
Procedure 1→13	

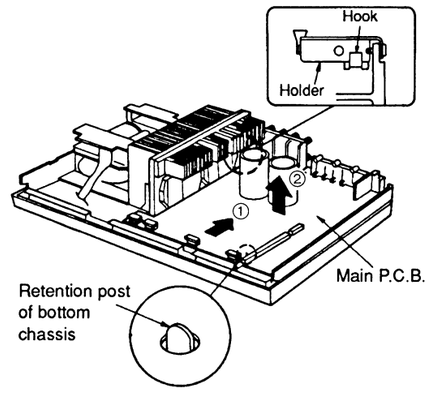


• Remove the 3 screws (❶~❸).

Ref. No. 14	Removal of the main P.C.B.
Procedure 1→2→10→14	

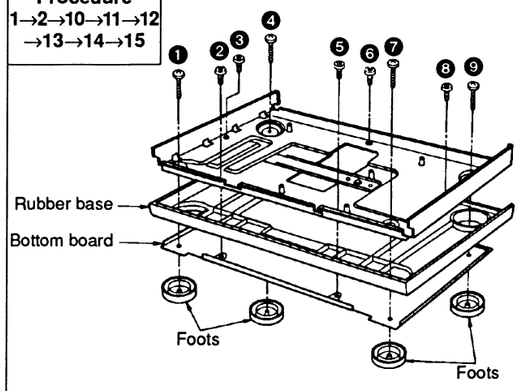


1. Remove the 7 screws (❶~❼).
2. Remove the 1 connector (CN702).



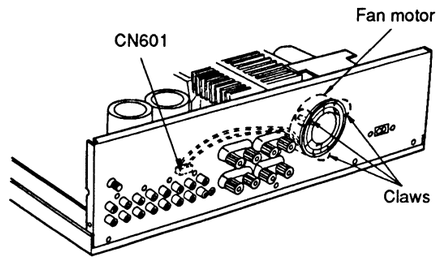
3. Lift the main P.C.B. off the retention post on the bottom chassis.
4. Release the hook by sliding the main P.C.B. in the direction of arrow ①.
5. Remove the main P.C.B. in the direction of arrow ②.

Ref. No. 15	Removal of the rubber base, bottom board and foots
Procedure 1→2→10→11→12 →13→14→15	



• Remove the 9 screws (❶~❾).

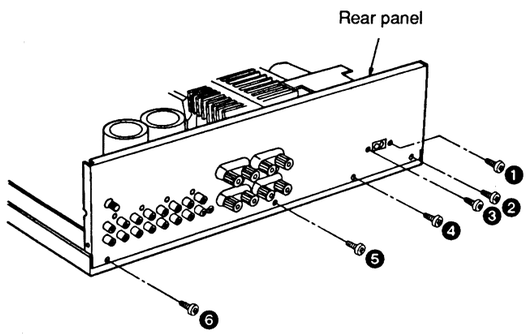
Ref. No. 16	Removal of the fan motor
Procedure 1→16	※For [EB], [EO], [GC] areas.



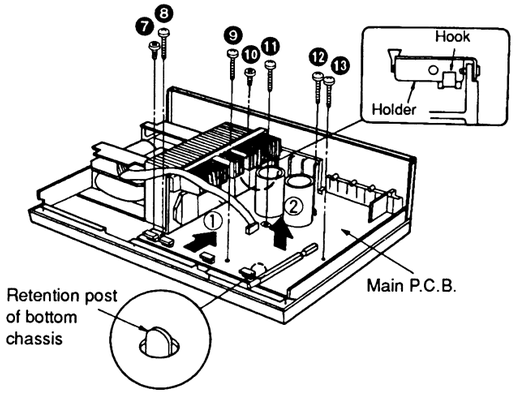
1. Remove the 1 connector (CN601).
2. Release the 3 claws.

■ HOW TO CHECK THE MAIN P.C.B.

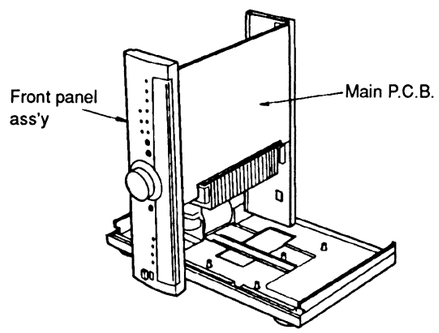
1. Remove the cabinet (see Ref. No. 1 of the disassembly instructions).
2. Remove the front panel ass'y (see Ref. No. 2 of the disassembly instructions).



3. Remove the 6 screws (❶~❻).

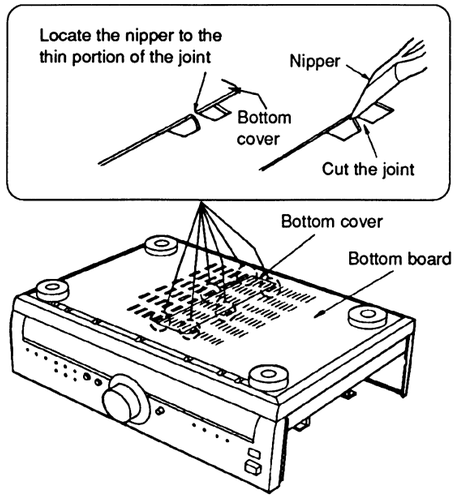


4. Remove the 7 screws (❼~⓭).
5. Lift the main P.C.B. off the retention post on the bottom chassis.
6. Release the hook by sliding the main P.C.B. in the direction of arrow ①, and then remove the main P.C.B. equipped with rear panel in the direction of arrow ②.

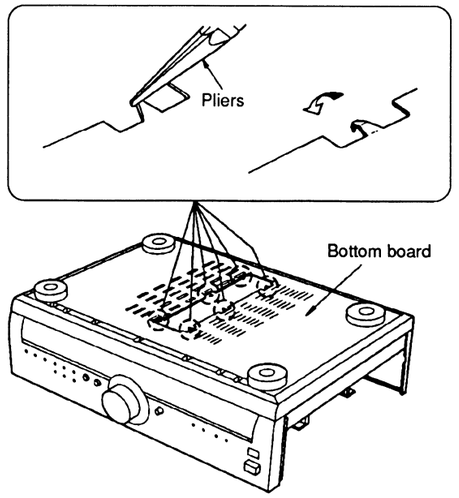


7. Reinstall the front panel ass'y to the main P.C.B.
8. When checking the soldered surface of the main P.C.B. and replacing the parts, do as shown in above.

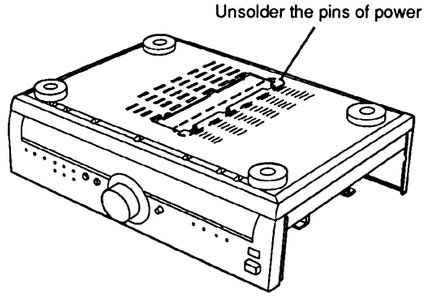
■ HOW TO REPLACE THE POWER IC



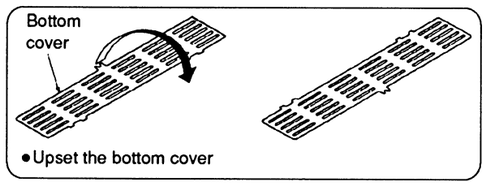
1. Cut the joints (6 portions) between bottom cover and bottom board with nipper.



2. After cutting the joints (6 portions), bend the portions of the bottom board in the direction of arrow with pliers.



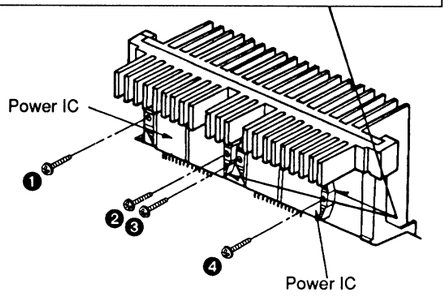
3. When replacing the power IC, unsolder the pins of power IC on the soldered surface.



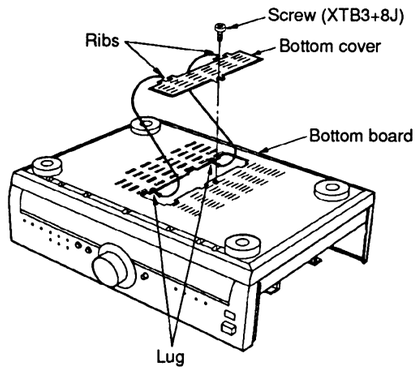
• Upset the bottom cover

CAUTION

- After replacing the power IC, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC. (Radiation of power IC)
- Tighten enough the 4 screws (❶~❹) after replacing the power IC. Otherwise, the heat rediation works little.



4. Then remove the 4 screws (❶~❹) fixed to the power IC.
5. After replacement the power IC, upset the bottom cover and align the ribs of the bottom cover to the lugs on the bottom board.
6. After mounting the bottom cover on the bottom board, fix it with a screw (XTB3+8J).



■ SCHEMATIC DIAGRAM (Parts list on pages 28, 29, 33 and 34)

Notes:

- ●S1 : Power "STANDBY⏻/ON" switch in "on" position. (POWER, ▙ STANDBY ⏻ ▟ ON)
- ●S2 : Voltage select switch in "220–240 V" position. (VOLT ADJ) for (GC) area
- ●S103 : Phono cartridge select switch in "MC" position. (PHONO SELECTOR)
- ●S204 : Tone control switch in "on" position. (TONE)
- ●S801 : Tape-monitor switch. (TAPE MONITOR)
- ●S802 : Input selectors switch. (TAPE 1)
- ●S803 : Input selectors switch. (TAPE 2)
- ●S804 : Input selectors switch. (AUX)
- ●S805 : Input selectors switch. (CD)
- ●S806 : Input selectors switch. (TUNER)
- ●S807 : Input selectors switch. (PHONO)
- ●S808 : Input selector switch. (◀)
- ●S809 : Input selector switch. (▶)
- ●S810 : Speaker select switch. (SPEAKERS A)
- ●S811 : Speaker select switch. (SPEAKERS B)

●Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester. No mark: Power ON

●Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

●This schematic diagram may be modified at any time with the development of new technology.

●Caution!
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

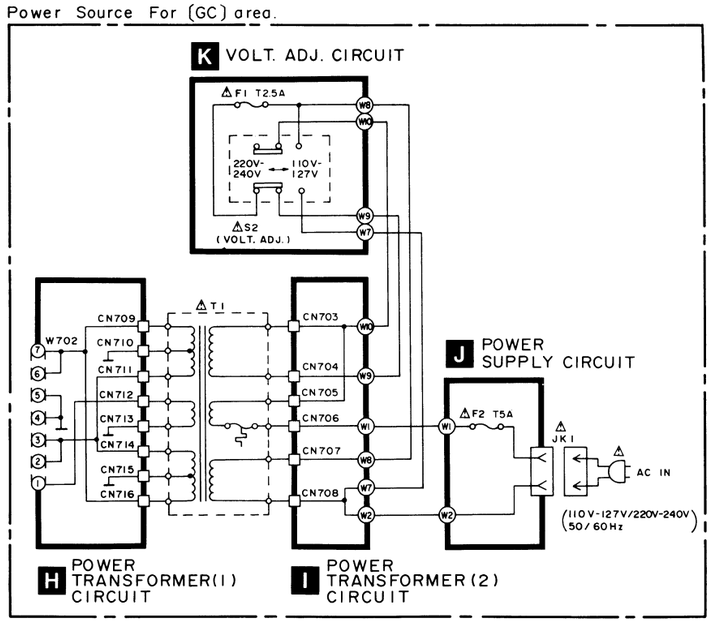
●Voltage and signal line

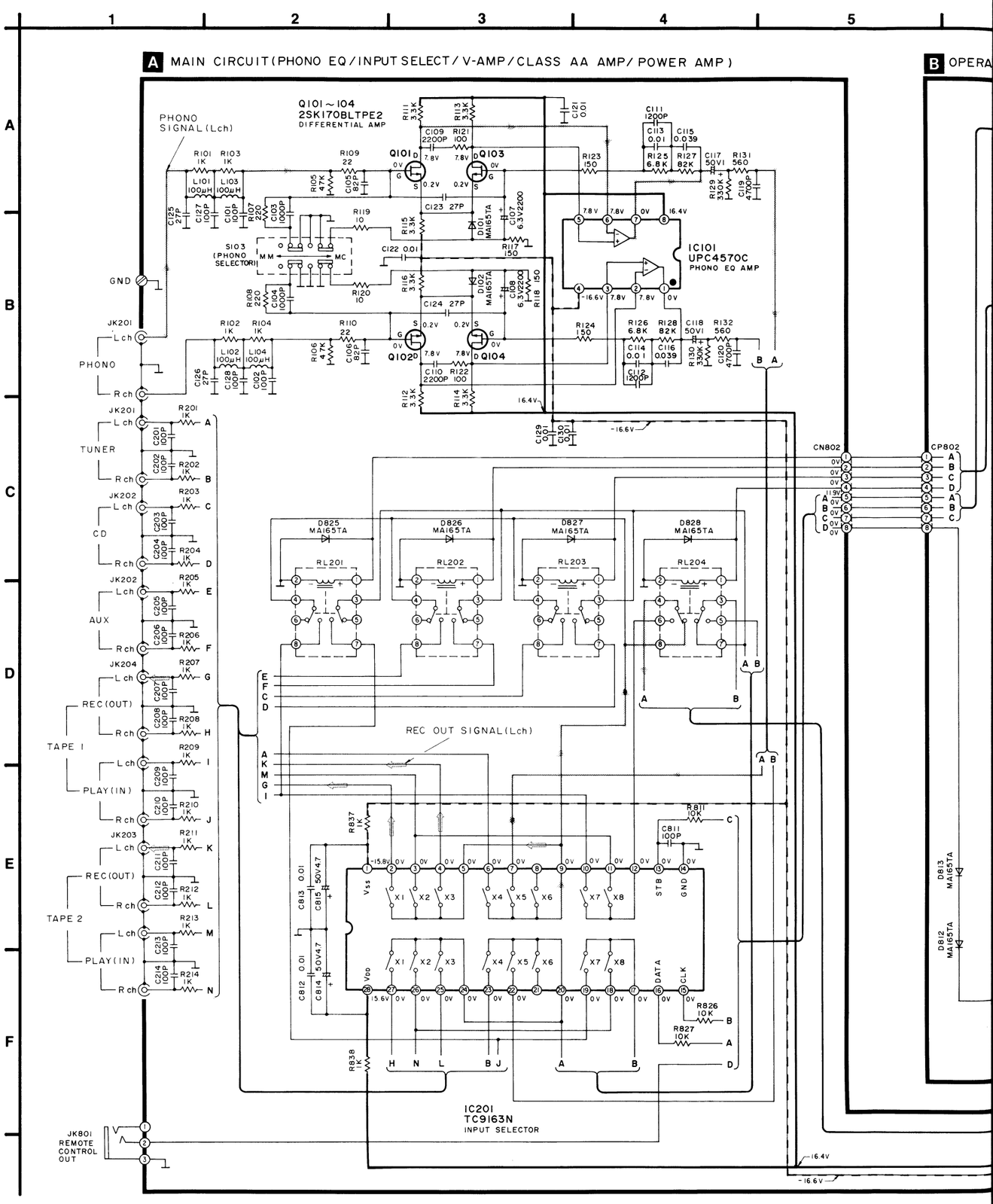
- ——— : Positive voltage line.
- – – – : Negative voltage line.
- ····· : Phono signal line.
- ⇒ : Recording output signal line.

●The supply part number is described alone in the replacement parts list.

Part No.	Production Part No.	Supply Part No.
Z801	RCDHC-237-E	RCDHC-237

Power Source For (GC) area.





5 6 7 8 9 10 11 12 13 14 15

B OPERATION CIRCUIT

Q801~804 UN4111TA RELAY DRIVE

Q806~809 UN4211TA RELAY DRIVE

Q801 Q802 Q803 Q804 Q806 Q807 Q808 Q809 10K

Q814 UN4111TA RELAY DRIVE

Q813 UN4111TA RELAY DRIVE

Q828 UN4111TA SWITCHING (REMOTE)

Q827 2SC3311A1RTA SWITCHING (REMOTE)

Q815 UN4211TA RESET

IC802 MN1381STA RESET

IC801 M37470M2215S MICRO COMPUTER

IC803 TC74HC42AP LED DRIVE

Q811,812,819~821 UN4211TA LED DRIVE

D804 (PHONO) D805 (TUNER) D806 (CD) D807 (AUX) D808 (TAPE 2) D809 (TAPE 1) D804~809 LN0183O5PH

D813 MA165TA D812 MA165TA

D822 (TAPE 1) D823 (TAPE 2) D824 (SOURCE) D822,823 LN0143O5PH D824 LN0183O5PH

Q817 2SC3311A1RTA POWER SUPPLY CONT.

Q818 2SD2037DEFTA REGULATOR

Q816 UN4211TA POWER SUPPLY CONT.

D817 MA165TA D815 1SS291TA

L801 100μH

X801 (4MHz)

2.2V P-P F=4MHz

3.8V P-P F=4MHz

C SWITCH CIRCUIT

S801 (TAPE MONITOR) S802 (TAPE 1) S803 (TAPE 2) S804 (AUX) S805 (CD) S806 (TUNER) S807 (PHONO) S809 (INPUT SELECTOR) S808 (INPUT SELECTOR)

D VOLUME CIRCUIT

IC251 BA6218 MOTOR DRIVE

DIRECTION SELECT DRIVE

L251 μH L252 MOTOR μH

TH201 100K TH202 100K

VR201-1 100K(A) VR201-2 100K(A) (VOLUME)

E TONE AMP CIRCUIT

VR202 100K(G) (BALANCE)

Q401,402 2SK389BG FLAT AMP

Q824,825 2SK301QRSTA MUTING

Q405~408 2SC2631RSTTA FLAT AMP

Q409,410 2SA1123RSTTA FLAT AMP

Q826 2SA933QRSTA MUTING CONT.

Q751 2SD2037DEFTA REGULATOR

Q752 2SB1357DEFTA REGULATOR

Q753 2SK330GRYTA STABILIZER

Q754 2SJ105GRYTA STABILIZER

16 17 18 19 20 21 22 23 24 25

IC301 UPC4570C TONE AMP

IC502 RSN6000A V-AMP(MOS)

IC501 SVI3205B POWER AMP

F POWER SWITCH CIRCUIT

G HEADPHONES JACK CIRCUIT

21 22 23 24 25 26 27 28 29 30

F POWER SWITCH CIRCUIT

G HEADPHONES JACK CIRCUIT

For (EB,EO,GC)areas.

Q822 UN4111TA LED DRIVE

Q503 2SA992EFPTA RELAY DRIVE

Q502 2SA992EFPTA RELAY DRIVE

Q501 2SA992EFPTA RELAY DRIVE

Q701 2SA992EFPTA RELAY DRIVE

Q607 UN4111TA MOTOR CONT.

Q608 UN4211TA MOTOR CONT.

Q605,606 2SC3311AIRTA MOTOR DRIVE

Q601 2SD592AORSTA MOTOR DRIVE

Q602,603 2SA9330RSTA MOTOR DRIVE

Q604 2SA9330RSTA MOTOR DRIVE

IC601 M5218AP MOTOR DRIVE

△IC501 SV13205B POWER AMP

H POWER TRANSFORMER(1) CIRCUIT

I POWER TRANSFORMER(2) CIRCUIT

J POWER SUPPLY CIRCUIT

JK501 SPEAKERS

JK502 HEADPHONES

FAN MOTOR

AC IN (230V·····(E,EG,EO) 230-240V·····(EB,GN) 50/60Hz)

SU-A800 SU-A800

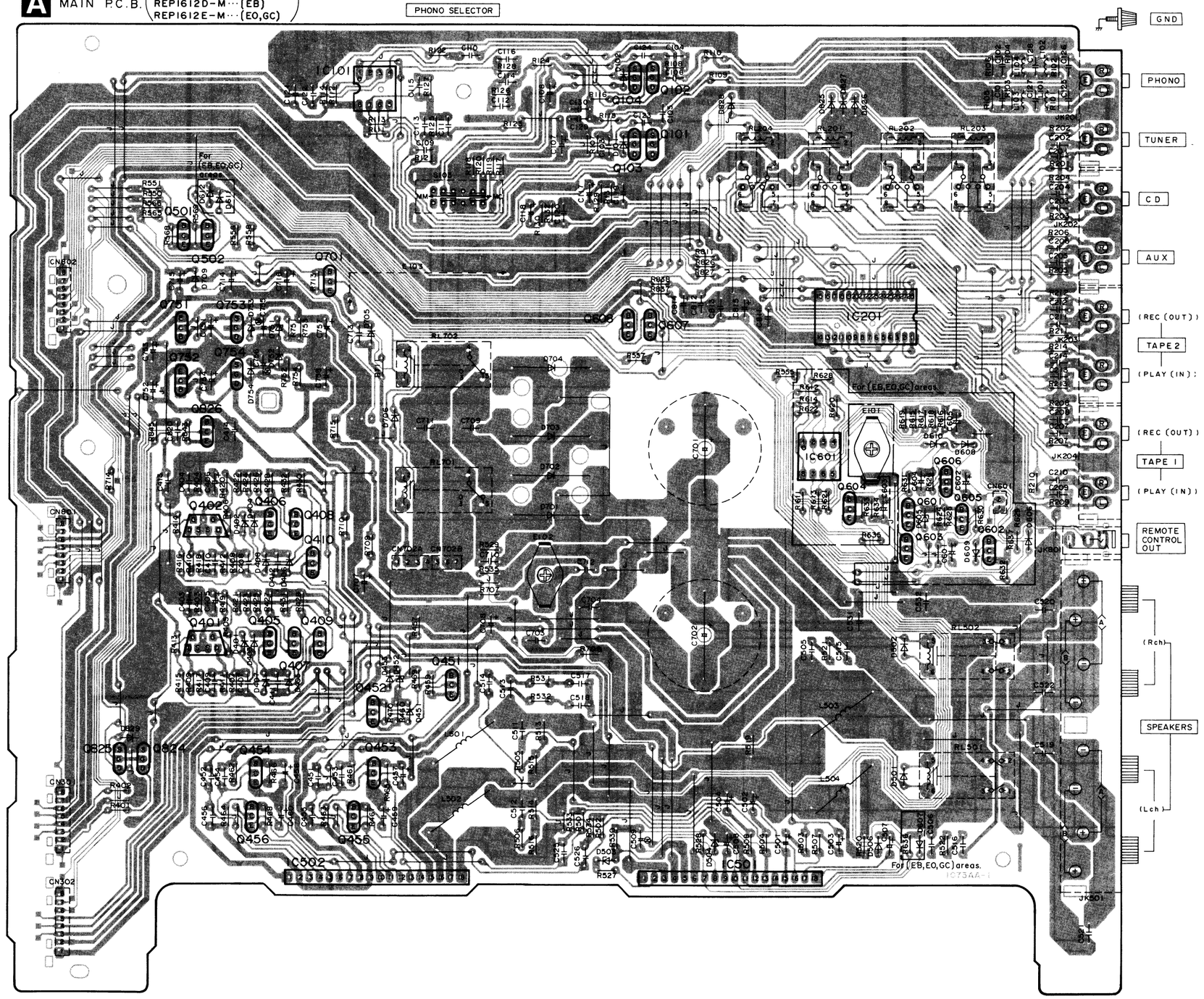
■ PRINTED CIRCUIT BOARD DIAGRAM

1 2 3 4 5 6 7 8 9 10

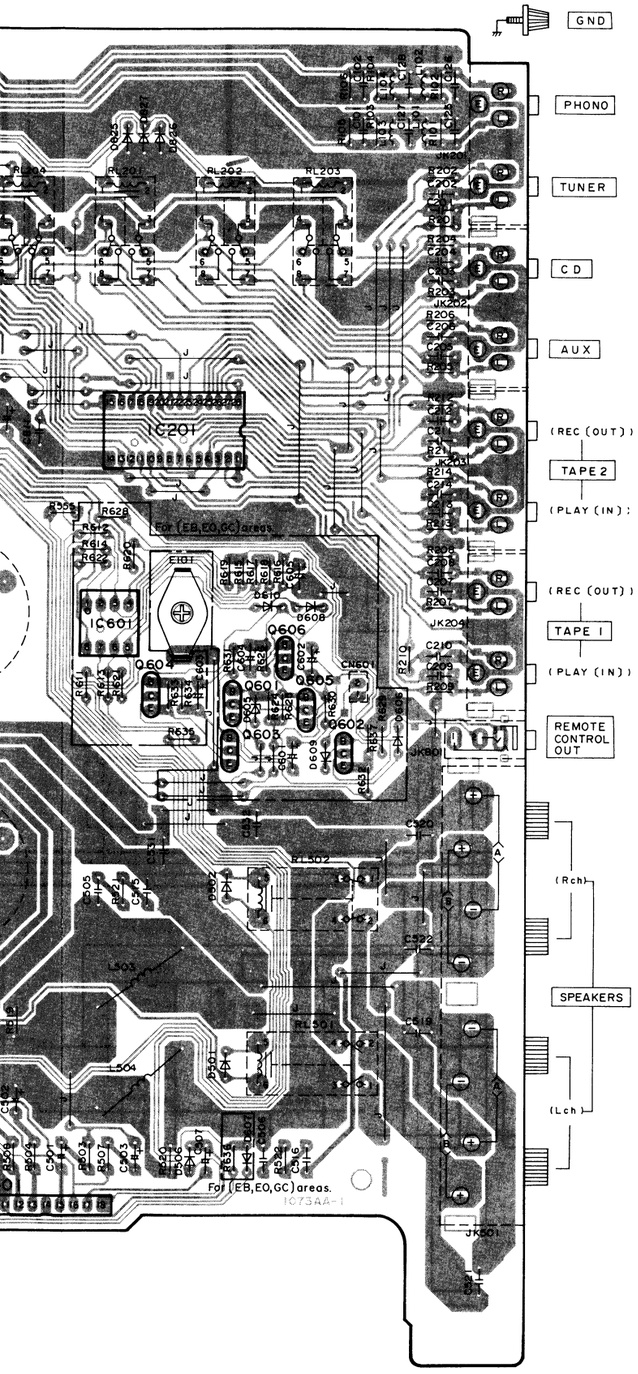
A B C D E F

•This circuit board diagram may be modified at any time with the development of new technology.

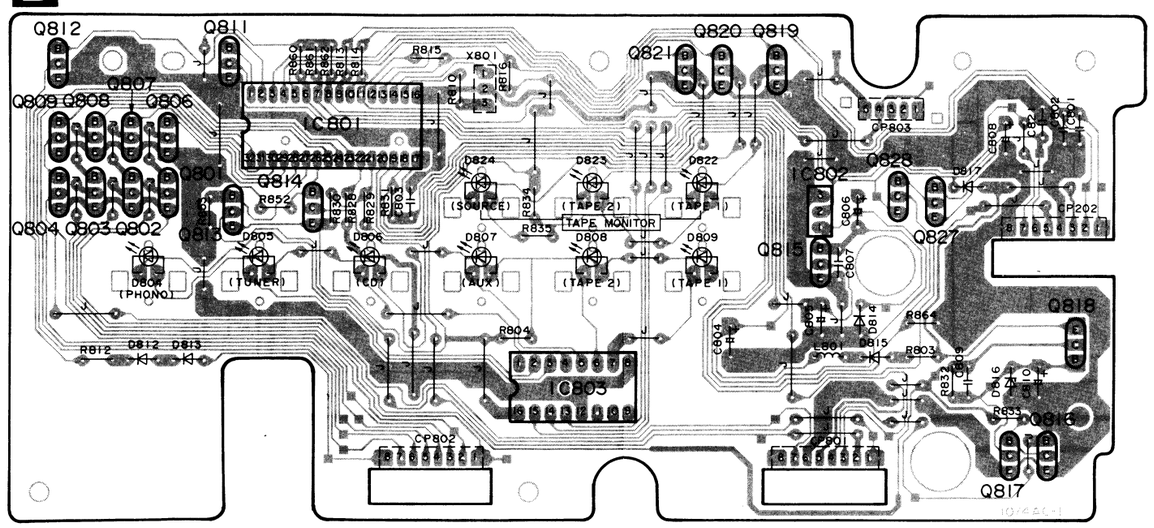
A MAIN P.C.B. (REPI612C-M···(E,EG,GN) / REPI612D-M···(EB) / REPI612E-M···(EO,GC))



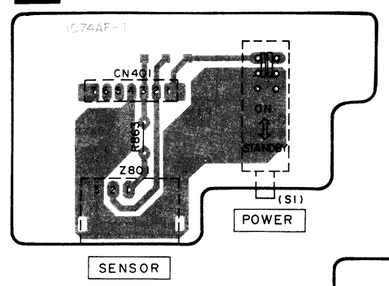
y time with the development of new technology.



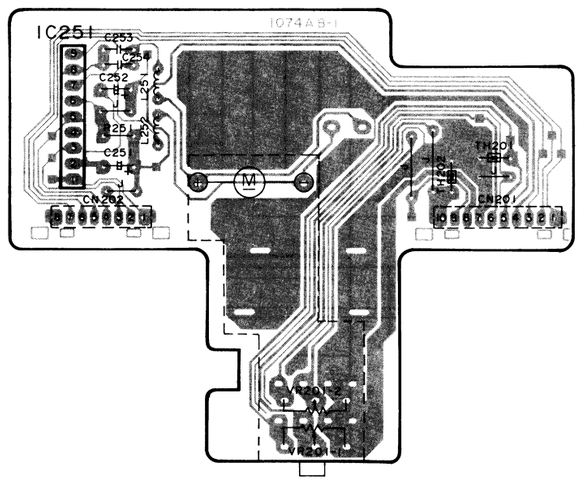
B OPERATION P.C.B. (REPI613B-S)



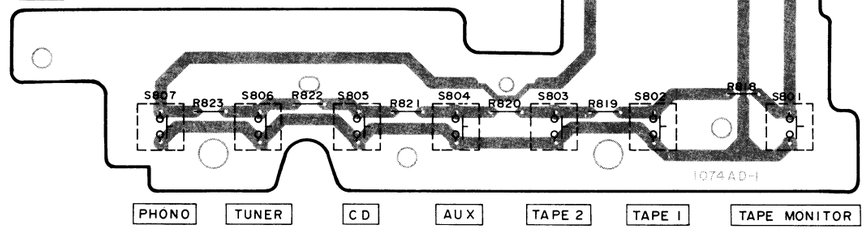
F POWER SWITCH P.C.B. (REPI613B-S)



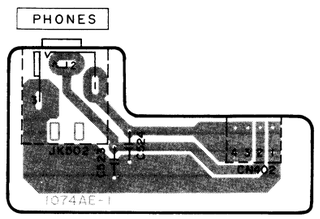
D VOLUME P.C.B. (REPI613B-S)



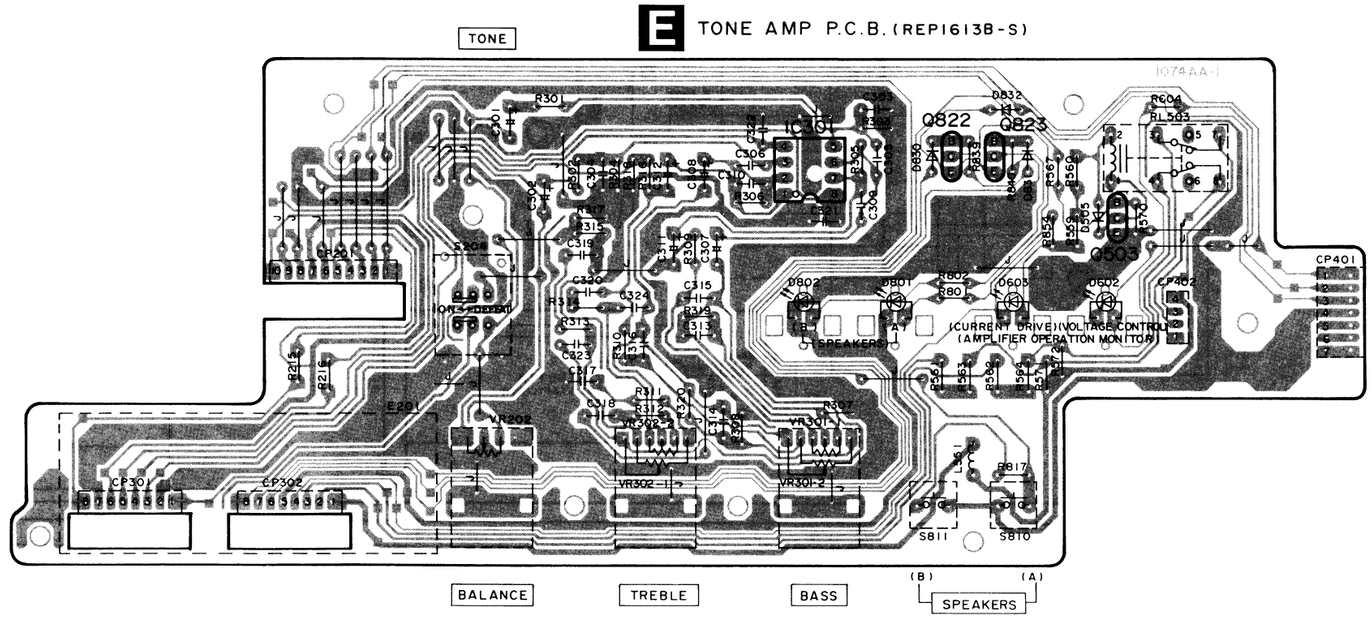
C SWITCH P.C.B. (REPI613B-S)



G HEADPHONES JACK P.C.B. (REPI613B-S)

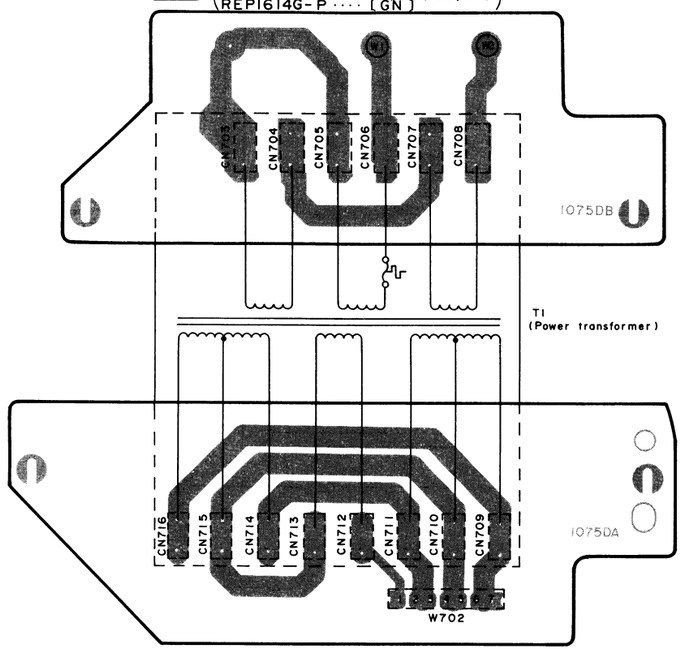


E TONE AMP P.C.B. (REPI613B-S)



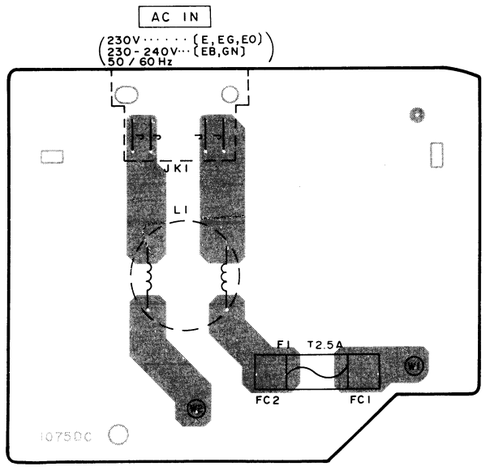
16 17 18 19 20 21 22 23 24 25

I POWER TRANSFORMER (2) P.C.B.
(REPI614E-P ···· (E, EB, EG, EO))
(REPI614G-P ···· (GN))



H POWER TRANSFORMER (1) P.C.B. (REPI614E-P) (REPI614G-P) (GN)

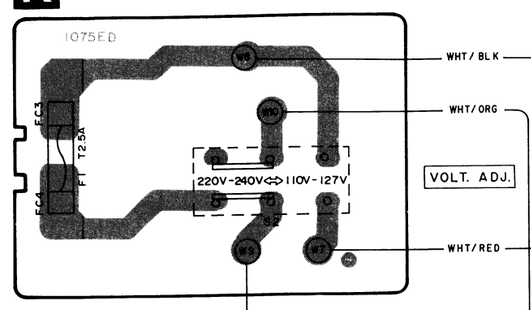
J POWER SUPPLY P.C.B.
(REPI614E-P ··· (E, EB, EG, EO))
(REPI614G-P ··· (GN))



● This printed circuit board diagram may be modified at any time with the development of new technology.

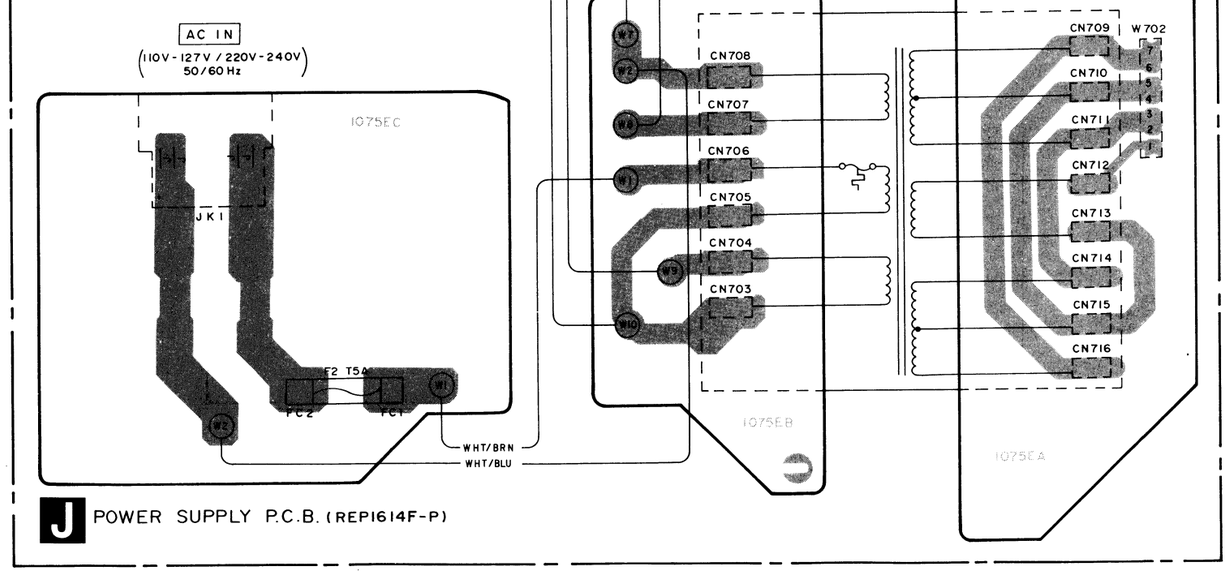
Power Source P.C.B. For (GC) area.

K VOLT. ADJ. P.C.B. (REPI614F-P)



I POWER TRANSFORMER (2) P.C.B. (REPI614F-P)

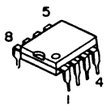
H POWER TRANSFORMER (1) P.C.B. (REPI614F-P)

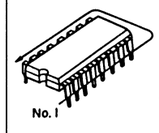


J POWER SUPPLY P.C.B. (REPI614F-P)

● Terminal guide of IC's, transistors and diodes

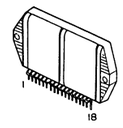
UPC4570C



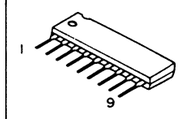


TC74HC42AP	16 Pin
TC9163N	28 Pin
M37470M2215S	32 Pin

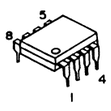
RSN6000A
SVI3205B



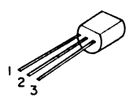
BA6218

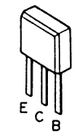


M5218AP

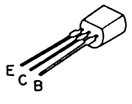


MN1381STA

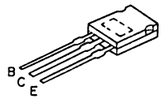




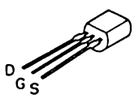
2SA1309AIRTA
2SC3311AIRTA
UN4111TA
UN4211TA



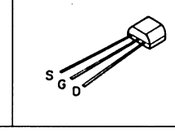
2SA933QRSTA
2SA992EFPTA
2SA1123RSTTA
2SC2631RSTTA
2SD592AQRSTA



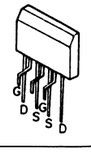
2SB1357DEFTA
2SD2037DEFTA



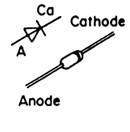
2SK170BLTPE2
2SK301QRSTA



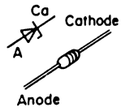
2SJ105GRYTA
2SK330GRYTA



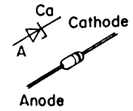
2SK389BG



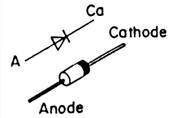
MA165TA
MA167TA
MA167ATA
MA29WATA
MA700ATA
ISS291TA
ISR35200TB



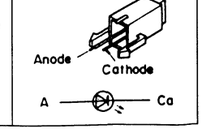
MA4056MTA
MA4068LTA



MA4120MTA
MA4160MTA

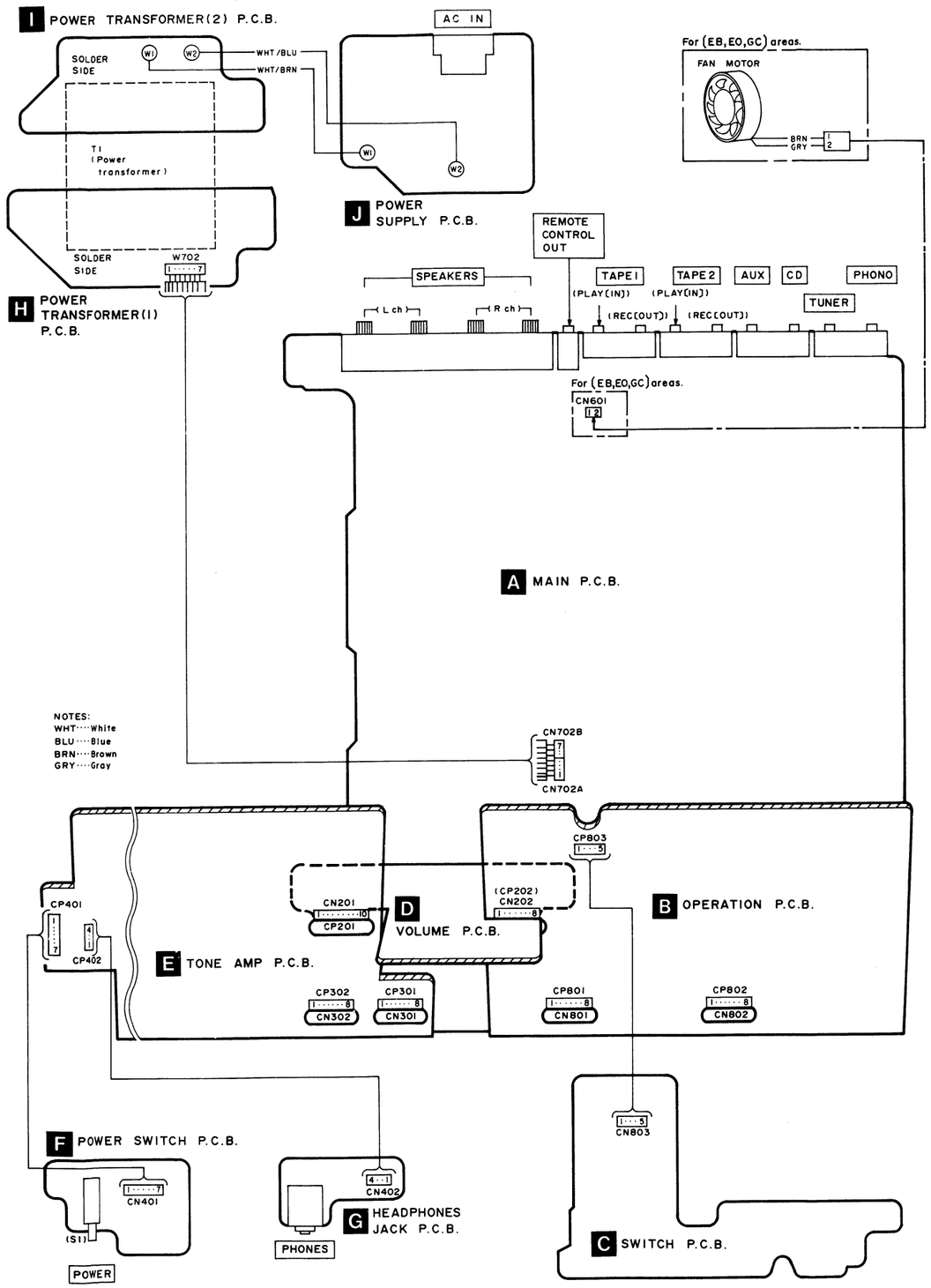


P300DLF

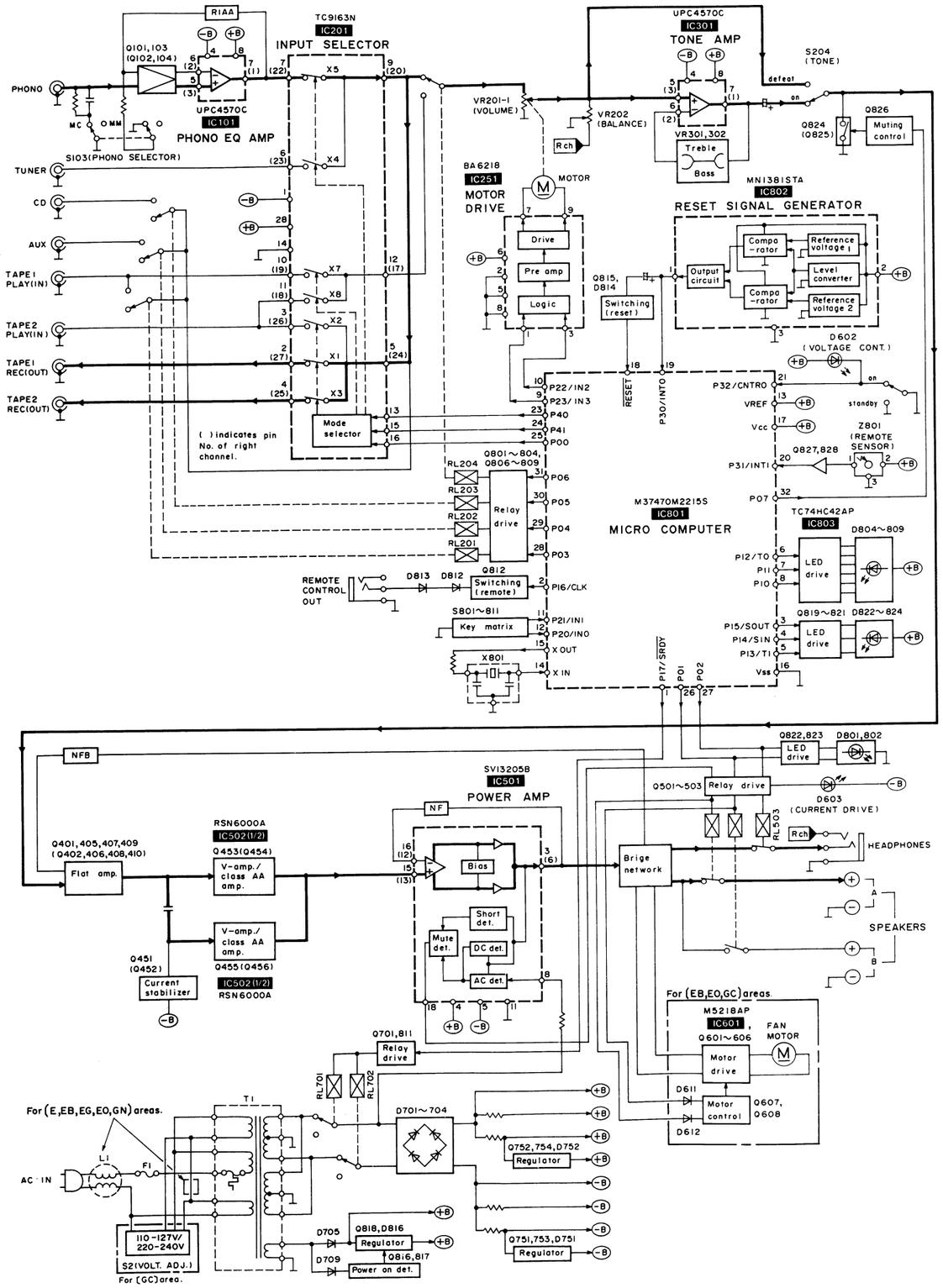


LN014305PH
LN018305PH

■ WIRING CONNECTION DIAGRAM



■ BLOCK DIAGRAM



■ FUNCTION OF IC TERMINALS

•IC801 (M37470M2215S)

Pin No.	Terminal Name	I/O	Function
1	P17/$\overline{SRDY}$	O	Relay drive signal output.
2	P16/CLK	O	Remote control signal output.
3	P15/SOUT	O	Tape monitor 1 LED drive signal.
4	P14/SIN	O	Tape monitor 2 LED drive signal.
5	P13/TI	O	Source LED drive signal.
6	P12/TO	O	Input selector LED drive signal.
7	P11		
8	P10		
9	P23/IN3	O	Volume control motor drive signal output
10	P22/IN2		
11	P21/IN1	I	Input select switch signal input.
12	P20/IN0	I	Speakers select switch signal input.
13	VREF	——	Reference voltage input.
14	X IN	I	Connected to ceramic oscillator. (X801: 4 MHz).
15	X OUT	O	
16	V_{SS}	——	GND terminal.
17	V_{CC}	——	Power supply (+5 V).

Pin No.	Terminal Name	I/O	Function
18	$\overline{RESET}$	I	Reset signal input.
19	P30/INTO	I	Back-up detector signal input.
20	P31/INTI	I	Remote control receiving signal input. Not used.
21	P32/CNTRO	I	POWER switch input.
22	P33/CNTRI	——	Not used.
23	P40	O	Input select IC (IC201) control signal output.
24	P41		
25	P00		
26	P01	O	Speaker (A) relay and LED drive signal.
27	P02	O	Speaker (B) relay and LED drive signal.
28	P03	O	SELECTOR RELAY RL201 drive signal output.
29	P04	O	SELECTOR RELAY RL202 drive signal output.
30	P05	O	SELECTOR RELAY RL203 drive signal output.
31	P06	O	SELECTOR RELAY RL204 drive signal output.
32	P07	O	Muting control signal output.

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y: Supply period for three years from termination of production.
*The "(SF)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	UPC4570C	I. C, PHONO EQ. AMP.	
IC201	TC9163N	I. C, INPUT SELECTOR	
IC251	BA6218	I. C, VOLUME MOTOR DRIVE	
IC301	UPC4570C	I. C, TONE AMP.	
IC501	SVI3205B	I. C, POWER AMP.	⚠
IC502	RSN6000A	I. C, V-AMP.	
IC601	M5218AP	I. C, FAN MOTOR DRIVE	(EB, EO, GC)
IC801	M37470M2215S	I. C, MICRO COMPUTER	
IC802	MN1381STA	I. C, RESET	
IC803	TC74HC42AP	I. C, LED DRIVE	
		TRANSISTOR(S)	
Q101-104	2SK170BLTPE2	TRANSISTOR	
Q401, 402	2SK389BG	TRANSISTOR	
Q405-408	2SC2631RSTTA	TRANSISTOR	
Q409, 410	2SA1123RSTTA	TRANSISTOR	
Q451, 452	2SC2631RSTTA	TRANSISTOR	
Q453, 454	2SC3311AIRTA	TRANSISTOR	
Q455, 456	2SA1309AIRTA	TRANSISTOR	
Q501-503	2SA992EFPTA	TRANSISTOR	
Q601	2SD592ANCQ	TRANSISTOR	(EB, EO, GC)
Q602-604	2SA933QRSTA	TRANSISTOR	(EB, EO, GC)
Q605, 606	2SC3311AIRTA	TRANSISTOR	(EB, EO, GC)
Q607	UN4111	TRANSISTOR	(EB, EO, GC)
Q608	UN4211	TRANSISTOR	(EB, EO, GC)
Q701	2SA992EFPTA	TRANSISTOR	
Q751	2SD2037DEFTA	TRANSISTOR	⚠
Q752	2SB1357DEFTA	TRANSISTOR	⚠
Q753	2SK330GRYTA	TRANSISTOR	⚠
Q754	2SJ105GRYTA	TRANSISTOR	⚠
Q801-804	UN4111	TRANSISTOR	
Q806-809	UN4211	TRANSISTOR	
Q811, 812	UN4211	TRANSISTOR	
Q813, 814	UN4111	TRANSISTOR	
Q815, 816	UN4211	TRANSISTOR	
Q817	2SC3311AIRTA	TRANSISTOR	
Q818	2SD2037DEFTA	TRANSISTOR	⚠
Q819-821	UN4211	TRANSISTOR	
Q822, 823	UN4111	TRANSISTOR	
Q824, 825	2SK301QRS	TRANSISTOR	
Q826	2SA933QRSTA	TRANSISTOR	
Q827	2SC3311AIRTA	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q828	UN4111	TRANSISTOR	
		DIODE(S)	
D101, 102	MA165	DIODE	
D401-404	MA165	DIODE	
D405, 406	MA167	DIODE	
D407, 408	MA165	DIODE	
D451	MA165	DIODE	
D452	MA4056MTA	DIODE	⚠
D453	MA29WA	DIODE	
D501, 502	MA165	DIODE	
D503, 504	MA4160M	DIODE	⚠
D505	MA165	DIODE	
D506	1SS291TA	DIODE	
D602	LN014305PH	DIODE	
D603	LN018305PH	DIODE	
D605	MA4120	DIODE	(EB, EO, GC)
D606-610	MA165	DIODE	(EB, EO, GC)
D611, 612	MA167	DIODE	(EB, EO, GC)
D701-704	P300DLF	DIODE	⚠
D705	1SR35200TB	DIODE	⚠
D706	MA165	DIODE	
D709	MA165	DIODE	⚠
D751, 752	MA4160M	DIODE	⚠
D753, 754	MA165	DIODE	
D801, 802	LN018305PH	DIODE	
D804-809	LN018305PH	DIODE	
D812-814	MA165	DIODE	
D815	1SS291TA	DIODE	
D816	MA4068L	DIODE	⚠
D817	MA165	DIODE	
D822, 823	LN014305PH	DIODE	
D824	LN018305PH	DIODE	
D825-828	MA165	DIODE	
D829	MA700	DIODE	
D830-832	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR201	RRV16B03B15A	V. R, MAIN VOLUME CONTROL	
VR202	EVJ02QF01G15	V. R, BALANCE	
VR301, 302	EVJYA1F01C15	V. R, BASS/TREBLE CONTROL	
		THERMISTOR(S)	

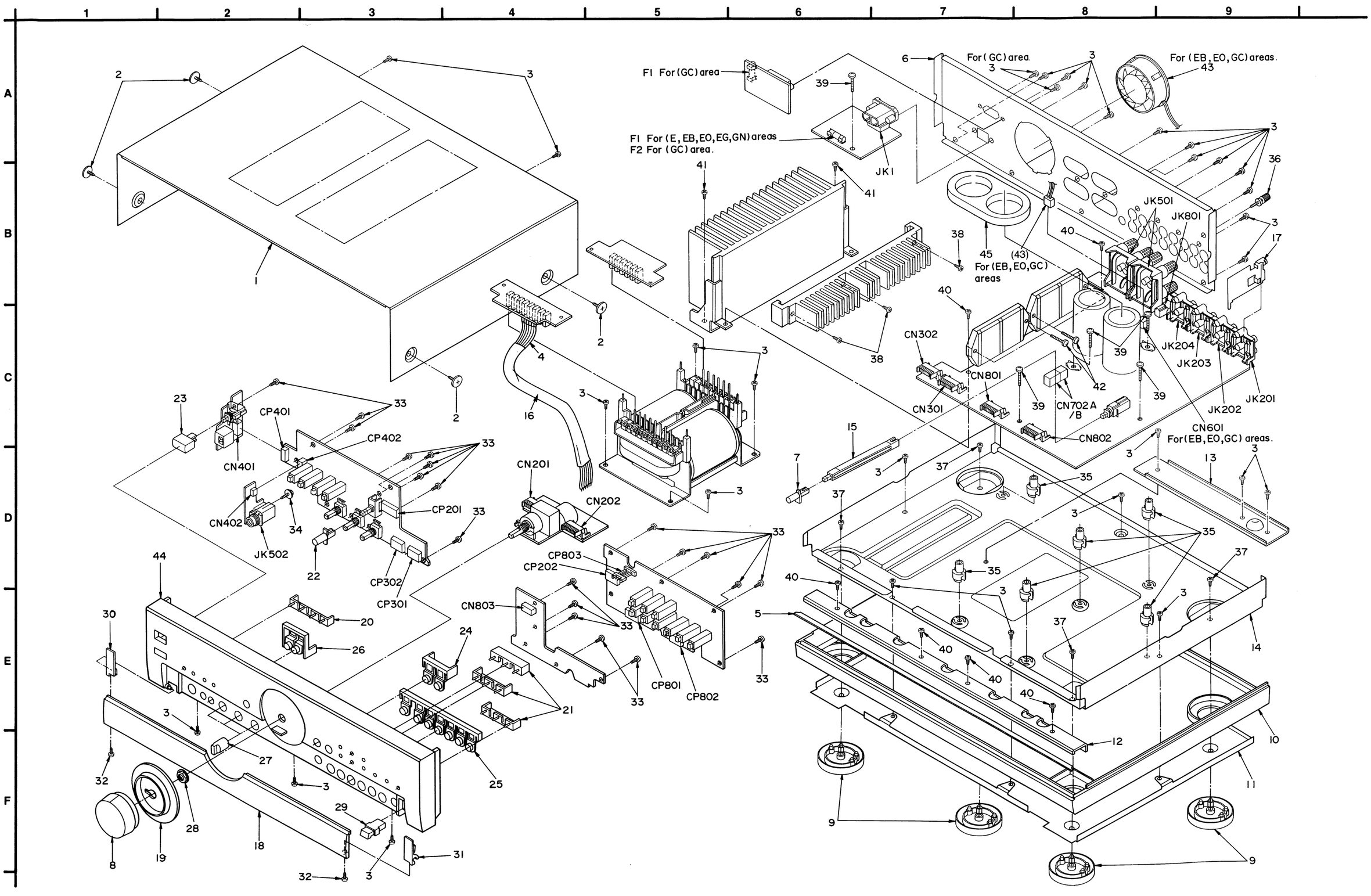
Ref. No.	Part No.	Part Name & Description	Remarks
TH201, 202	ERTD2ZHL104T	THERMISTOR	
		COMPONENT COMBINATION (S)	
Z801	RCDHC-237	REMOTE SENSOR	
		COIL (S)	
L1	RLQZ271M	COIL	⚠ (E, EB, EG, EO, GN)
L101-104	ELEXT101KA9	COIL	
L251, 252	ELEXT1R0KA9	COIL	
L501-504	SLQY18G-10	COIL	
L551	ELEPK2R2MA	COIL	
L801	ELEXT101KA9	COIL	
		TRANSFORMER (S)	
T1	RTP7K5E003-W	POWER TRANSFORMER	⚠ (E, EG, EO)
T1	RTP7K5B002-W	POWER TRANSFORMER	⚠ (EB, GC, GN)
		OSCILLATOR (S)	
X801	EFOGC4004A4	OSCILLATOR (4MHz)	
		FUSE (S)	
F1	XBA2C25TB0	FUSE, 250V T2.5A	⚠
F2	XBA2C50TB0	FUSE, 250V T5A	⚠ (GC)
		SWITCH (ES)	
S1	SSH1238	SW, POWER	
S2	ESD26200A	SW, VOLTAGE SELECTOR	⚠ (GC)
S103	RSP2D010-J	SW, PHONO SELECTOR	
S204	ESB68113	SW, TONE ON/DEFEAT	
S801	EVQ21405R	SW, TAPE MONITOR	
S802	EVQ21405R	SW, INPUT SELECTOR (TAPE1)	
S803	EVQ21405R	SW, INPUT SELECTOR (TAPE2)	
S804	EVQ21405R	SW, INPUT SELECTOR (AUX)	
S805	EVQ21405R	SW, INPUT SELECTOR (CD)	
S806	EVQ21405R	SW, INPUT SELECTOR (TUNER)	
S807	EVQ21405R	SW, INPUT SELECTOR (PHONO)	
S808	EVQ21405R	SW, INPUT SELECTOR (LEFT)	
S809	EVQ21405R	SW, INPUT SELECTOR (RIGHT)	
S810	EVQ21405R	SW, SPEAKER (A)	
S811	EVQ21405R	SW, SPEAKER (B)	
		CONNECTOR (S)	
CN201	RJU003K010M1	SOCKET (10P)	
CN202	RJU003K008M1	SOCKET (8P)	
CN301, 302	RJU003K008M1	SOCKET (8P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN401	RJT057W007-1	CONNECTOR (7P)	
CN402	RJU057W004	SOCKET (4P)	
CN601	SJT3213	CONNECTOR (2P)	(EB, EO, GC)
CN703-716	RJS1A1101T1	SOCKET (1P)	
CN801, 802	RJU003K008M1	SOCKET (8P)	
CN803	RJU066H05	SOCKET (5P)	
CN702A	RJS1A6604	SOCKET (4P)	
CN702B	RJS1A6603	SOCKET (3P)	
CP201	RJT003K010-1	CONNECTOR (10P)	
CP202	RJT003K008-1	CONNECTOR (8P)	
CP301, 302	RJT003K008-1	CONNECTOR (8P)	
CP401	RJU057W007	SOCKET (7P)	
CP402	RJT057W004-1	CONNECTOR (4P)	
CP801, 802	RJT003K008-1	CONNECTOR (8P)	
CP803	RJT066H05A	CONNECTOR (5P)	
		JACK (S)	
JK1	SJS9236	AC INLET	⚠ (E, EB, EG, EO, GC)
JK1	SJSD16	AC INLET	⚠ (GN)
JK201	SJF3069N	INPUT TERMINAL (PHONO/TUNER)	
JK202	SJF3069N	INPUT TERMINAL (CD/AUX)	
JK203	SJF3069N	IN/OUTPUT TERMINAL (TAPE2)	
JK204	SJF3069N	IN/OUTPUT TERMINAL (TAPE1)	
JK501	RJH4801-1	SPEAKERS TERMINAL	(E, EG, EO, GC, GN)
JK501	RJH4801-2	SPEAKERS TERMINAL	(EB)
JK502	QJA0455ZC-A	HEADPHONES JACK	
JK801	RJJ33TR01	REMOTE CONTROL JACK	
		EARTH TERMINAL (S)	
E101, 102	SNE1004-1	GND PLATE	
E103	SMC949	SHIELD PLATE	
E201	RSC0340	SHIELD PLATE	
		FUSE HOLDER (S)	
FC1, 2	EYF52BC	FUSE HOLDER	
FC3, 4	SJT388	FUSE HOLDER	(GC)
		RELAY (S)	
RL201-204	RSY0014M-0	RELAY	
RL501, 502	RSY0013-0	RELAY	⚠
RL503	RSY0014M-0	RELAY	
RL701, 702	RSY0012M-0	RELAY	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0089B-1K	CABINET	(E, EG, GN)
1	RKM0089C-1K	CABINET	(EB, EO, GC)
2	SNE2129-1	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RWJ39073300Q	FLAT CABLE (7P)	
5	RGK0588-T	ORNAMENT RUBBER	
6	RGR0171D-A1	REAR PANEL	(E, EG)
6	RGR0171E-B1	REAR PANEL	(EB)
6	RGR0171A-D1	REAR PANEL	(EO)
6	RGR0171B-B	REAR PANEL	(GC)
6	RGR0171D-C1	REAR PANEL	(GN)
7	RGU0609-K	BUTTON, PHONO SELECTOR	
8	RGW0179-K	KNOB, VOLUME	
9	RKA0053-A	FOOT	
10	RKU0050-K	RUBBER BASE	
11	RMA0694	BOTTOM BOARD	
12	RMA0734	ANGLE	
13	RFKNUA800E-K	ANGLE ASS'Y	
14	RFKJUA800E-K	BOTTOM CHASSIS	
15	RMM0104	SWITCH SHAFT	
16	RWZ080UFW240	TUBE	
17	RSC0322	SHIELD PLATE (PHONO)	
18	RKF0314-K	OPERATION DOOR	
19	RGK0551-S	ORNAMENT	
20	RGL0189-Q	PANEL LIGHT (A)	
21	RGL0190-Q	PANEL LIGHT (B)	
22	RGU0282	BUTTON, TONE	
23	RGU0890-K	BUTTON, POWER	
24	RGU0891-K	BUTTON, INPUT SELECTOR	
25	RGU0892-K	BUTTON, TAPE MONITOR etc.	
26	RGU0893-K	BUTTON, SPEAKERS	
27	RGW0178-K	KNOB, BASS/TREBLE etc.	
28	RHN90001	NUT	
29	RMQ0215A	DOOR STOPPER	
30	RMQ0378	DOOR HOLDER (R)	
31	RMQ0379	DOOR HOLDER (L)	
32	XQN26+AJ6FZ	SCREW	
33	XTBS26+8J	SCREW	
34	XTWS3+8T	SCREW	
35	SHE187-2	P.C.B. SUPPORT	
36	SNE2123	GND SCREW	
37	XTB3+14G	SCREW	
38	XTB3+16JFZ	SCREW	
39	XTB3+20JFZ	SCREW	
40	XTB3+8JFZ	SCREW	
41	XTWS3+8T	SCREW	
42	XTW3+15T	SCREW	
43	REM0040	FAN MOTOR	(EB, EO, GC)
44	RFKGUA800E-K	FRONT PANEL ASS'Y	

Ref. No.	Part No.	Part Name & Description	Remarks
45	RMF0050	CUSHION	
		PACKING MATERIALS	
P1	RPG1573	PACKING CASE	(E, EG, EO, GC, GN)
P1	RPG1577-1	PACKING CASE	(EB)
P2	RPN0685	PAD	
P3	RPQ0164	ACCESSORY PAD	
P4	XZB50X65A02Z	PROTECTION COVER	
P5	XZB24X34C04	PROTECTION COVER	
P6	RPH0032	PROTECTION SHEET	(EB, GN)
		ACCESSORIES	
A1	EUR642210	REMOTE CONTROL TRANSMITTER	
A1-1	UR64EC1371	BATTERY COVER	
A2	RJA0019-2K	AC POWER SUPPLY CORD	⚠ (E, EG, EO, GC)
A2	VJA0733	AC POWER SUPPLY CORD	⚠ (EB) (SF)
A2	RJA0036-K	AC POWER SUPPLY CORD	⚠ (GN)
A3	RQA0013	WARRANTY CARD	(E, EB, EG, EO)
A3	RQX7433ZA	WARRANTY CARD	(GN)
A4	RQCB0169	SERVICE CENTER LIST	
A5	RQT1980-B	INSTRUCTIONS MANUAL	(EB, GN)
A5	RFKSUA800E-K	INSTRUCTIONS MANUAL	(E)
A5	RFKSUA800EGK	INSTRUCTIONS MANUAL	(EG)
A5	RFKSUA800GCK	INSTRUCTIONS MANUAL	(GC)
A5	RFKSUA800E0K	INSTRUCTIONS MANUAL	(EO)
A6	RQLA0134	CAUTION LABEL	(GC)
A7	SJP5213-2	POWER PLUG ADAPTOR	⚠ (GC)

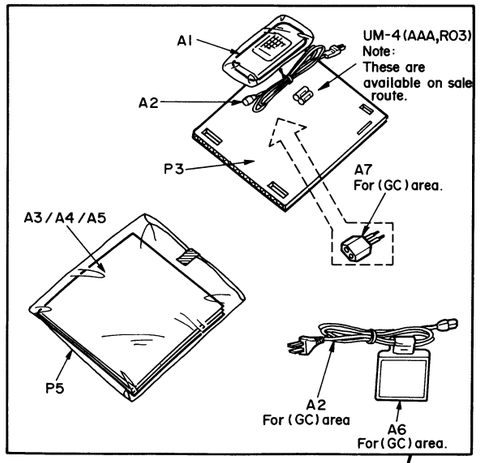
■ CABINET PARTS LOCATION

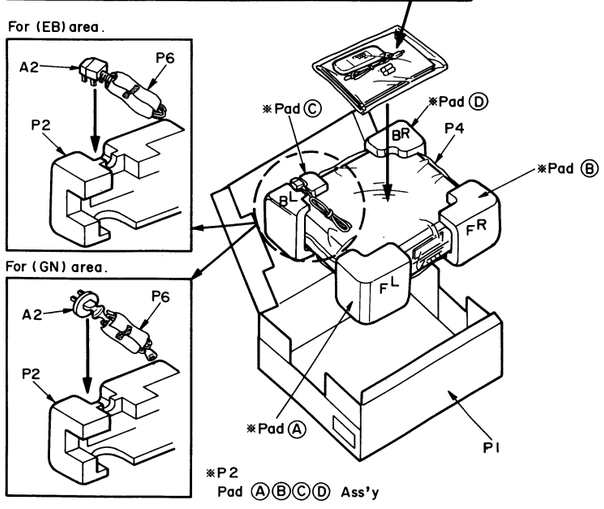


Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101-104	ERDS2TJ102	1/4W 1K
R105, 106	ERDS2TJ473	1/4W 47K
R107, 108	ERDS2TJ221	1/4W 220
R109, 110	ERDS2TJ220T	1/4W 22
R111-116	ERDAS3G332T	1/4W 3.3K
R117, 118	ERDS2TJ151	1/4W 150
R119, 120	ERDS2TJ100	1/4W 10
R121, 122	ERDS2TJ101	1/4W 100
R123, 124	ERDS2TJ151	1/4W 150
R125, 126	ERDS2TJ682T	1/4W 6.8K
R127, 128	ERDS2TJ823T	1/4W 82K
R129, 130	ERDS2TJ334	1/4W 330K
R131, 132	ERDS2TJ561	1/4W 560
R201-214	ERDAS3J102T	1/4W 1K
R215, 216	ERDLS2VJ332T	1/4W 3.3K
R251	ERDS1FVJ100T	1/2W 10 ⚠
R301, 302	ERDAS3G561	1/4W 560
R303, 304	ERDS2TJ104	1/4W 100K
R305, 306	ERDS2TJ224T	1/4W 220K
R307, 308	ERDS2TJ392T	1/4W 3.9K
R309, 310	ERDS2TJ223	1/4W 22K
R311, 312	ERDS2TJ102	1/4W 1K
R313, 314	ERDS2TJ392T	1/4W 3.9K
R315, 316	ERDS2TJ222	1/4W 2.2K
R317, 318	ERDS2TJ391	1/4W 390
R319, 320	ERDS2TJ183T	1/4W 18K
R401, 402	ERDLS2VJ102T	1/4W 1K
R403, 404	ERDAS3G823T	1/4W 82K
R405, 406	ERDLS2VJ102T	1/4W 1K
R407, 408	ERDAS3G184T	1/4W 180K
R409-412	ERDAS3G562T	1/4W 5.6K
R413, 414	ERDAS3G101T	1/4W 100
R415, 416	ERDS2TJ183T	1/4W 18K
R417, 418	ERDAS3J271T	1/4W 270
R419, 420	ERDAS3G822T	1/4W 8.2K
R421, 422	ERDAS3G153T	1/4W 15K
R423-426	ERDAS3G101T	1/4W 100
R427-430	ERDAF2VJ122T	1/4W 1.2K ⚠
R431, 432	ERDAF2VJ101T	1/4W 100 ⚠
R457	ERDS2TJ153	1/4W 15K
R459, 460	ERDAF2VJ101T	1/4W 100 ⚠
R461-464	ERDS2TJ333	1/4W 33K
R465-468	ERDAF2VJ101T	1/4W 100 ⚠
R469	ERDS2TJ103	1/4W 10K
R470	ERDS2TJ102	1/4W 1K
R501, 502	ERDS2TJ392T	1/4W 3.9K
R503, 504	ERDAF2VJ121T	1/4W 120 ⚠
R505, 506	ERDS2TJ392T	1/4W 3.9K
R507, 508	ERDAF2VJ121T	1/4W 120 ⚠
R513-516	ERDAF2VJ100T	1/4W 10 ⚠
R519, 520	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R521, 522	ERDS1FVJ100T	1/2W 10 ⚠
R527	ERDS2TJ223	1/4W 22K
R528	ERDS2TJ824	1/4W 820K
R529	ERDS2TJ124T	1/4W 120K
R530	ERDS1FVJ472T	1/2W 4.7K ⚠
R531, 532	ERDS1FVJ100T	1/2W 10 ⚠
R533, 534	ERDS2TJ182	1/4W 1.8K
R535	ERDS2TJ473	1/4W 47K
R550, 551	ERDS2TJ222	1/4W 2.2K
R555-558	ERG1SJ561E	1W 560
R559	ERG1SJ152E	1W 1.5K
R560	ERG1SJ182E	1W 1.8K
R561, 562	ERG1SJ151E	1W 150
R563, 564	ERG1SJ181E	1W 180
R565-570	ERDS2TJ223	1/4W 22K
R571, 572	ERDS2TJ470	1/4W 47
R604	ERDS2TJ181T	1/4W 180
R611-614	ERDAS3G223T	1/4W 22K (EB, EO, GC)
R615-618	ERDAS3G103T	1/4W 10K (EB, EO, GC)
R619	ERDS2TJ151	1/4W 150 (EB, EO, GC)
R620	ERDS2TJ153	1/4W 15K (EB, EO, GC)
R621, 622	ERDS2TJ223	1/4W 22K (EB, EO, GC)
R624	ERDS2TJ332	1/4W 3.3K (EB, EO, GC)
R625	ERDS2TJ223	1/4W 22K (EB, EO, GC)
R626	ERDS2TJ103	1/4W 10K (EB, EO, GC)
R628	ERDS2TJ564	1/4W 560K (EB, EO, GC)
R629	ERDS2TJ473	1/4W 47K (EB, EO, GC)
R630	ERDS2TJ120T	1/4W 12 (EB, EO, GC)
R631	ERDS2TJ223	1/4W 22K (EB, EO, GC)
R632	ERDS2TJ102	1/4W 1K (EB, EO, GC)
R633	ERDS2TJ563	1/4W 56K (EB, EO, GC)
R634	ERDS2TJ223	1/4W 22K (EB, EO, GC)
R635, 636	ERDS2TJ103	1/4W 10K (EB, EO, GC)
R637	ERDS2TJ222	1/4W 2.2K (EB, EO, GC)
R707, 708	ERDAF2VJ6R8T	1/4W 6.8 ⚠
R709	ERDAF2VJ470T	1/4W 47 ⚠
R710	ERDAF2VJ151T	1/4W 150 ⚠
R711	ERDS2TJ222	1/4W 2.2K
R713	ERDS2TJ223	1/4W 22K
R714	ERDS2TJ222	1/4W 2.2K
R715	ERDAF2VJ151T	1/4W 150 ⚠
R751, 752	ERDS2TJ105T	1/4W 1M
R753, 754	ERDS1FVJ103T	1/2W 10K ⚠
R801, 802	ERDS2TJ391	1/4W 390
R803	ERDS2TJ390	1/4W 39
R804	ERDS2TJ331	1/4W 330
R810	ERDS2TJ102	1/4W 1K
R811	ERDS2TJ103	1/4W 10K
R812	ERDS2TJ102	1/4W 1K
R813-817	ERDS2TJ103	1/4W 10K
R818	ERDS2TJ821	1/4W 820
R819	ERDS2TJ102	1/4W 1K
R820	ERDS2TJ122	1/4W 1.2K
R821	ERDS2TJ152	1/4W 1.5K
R822	ERDS2TJ182	1/4W 1.8K
R823	ERDS2TJ222	1/4W 2.2K
R824	ERDS2TJ332	1/4W 3.3K
R825	ERDS2TJ472	1/4W 4.7K
R826, 827	ERDS2TJ103	1/4W 10K
R828, 829	ERDS2TJ102	1/4W 1K
R830	ERDS2TJ223	1/4W 22K
R831	ERDS2TJ104	1/4W 100K
R832	ERDS2TJ102	1/4W 1K
R833	ERDS2TJ103	1/4W 10K
R834	ERDS2TJ221	1/4W 220
R835	ERDS2TJ181T	1/4W 180
R837, 838	ERDS2TJ102	1/4W 1K
R839, 840	ERDS2TJ682T	1/4W 6.8K
R843	ERDS2TJ472	1/4W 4.7K
R845	ERDS2TJ334	1/4W 330K
R852, 853	ERDS2TJ103	1/4W 10K
R854	ERDS2TJ471	1/4W 470
R860-862	ERDS2TJ104	1/4W 100K
R863	ERDS2TJ102	1/4W 1K
R864	ERDS2TJ223	1/4W 22K
		CAPACITORS
C101, 102	ECBT1H101KB5	50V 100P
C103, 104	ECBT1H102KB5	50V 1000P
C105, 106	ECBT1H820KB5	50V 82P
C107, 108	ECA0JM222B	6.3V 2200U
C109, 110	ECKW1H222KB5	50V 2200P
C111, 112	ECQB1H122JF3	50V 1200P
C113, 114	ECQB1H103JF3	50V 0.01U
C115, 116	ECQB1H393JF3	50V 0.039U
C117, 118	ECA1HPXS010B	50V 1U
C119, 120	ECQB1H472JF3	50V 4700P
C121, 122	ECQB1H103JF3	50V 0.01U
C123-126	ECBT1H270J5	50V 27P
C127, 128	ECBT1H101KB5	50V 100P
C129, 130	ECBT1E103ZF	25V 0.01U
C201-214	ECKT1H101KB	50V 100P
C251, 252	ECEA0JKA101B	6.3V 100U
C253, 254	ECBT1H104ZF5	50V 0.1U
C301, 302	ECA1HPXS3R3B	50V 3.3U
C303, 304	ECCR1H101K5	50V 100P
C305, 306	ECBT1H820KB5	50V 82P
C307, 308	ECA1HPXS4R7B	50V 4.7U
C309, 310	ECBT1H390J5	50V 39P
C311, 312	ECA1CPXS100B	16V 10U
C313, 314	ECQV1H823JM3	50V 0.082U
C315, 316	ECQB1H153JF3	50V 0.015U
C317, 318	ECQB1H183JF3	50V 0.018U
C319, 320	ECQB1H222JF3	50V 2200P
C321, 322	ECBT1E223ZF	25V 0.022U
C323, 324	ECBT1H121KB5	50V 120P
C403, 404	ECKR1H271KB5	50V 270P
C405, 406	ECA1CPXS470B	16V 47U
C407, 408	ECCR1H070C5	50V 7P
C409, 410	ECKR1H391KB5	50V 390P
C411, 412	ECCR1H030C5	50V 3P
C413, 414	ECQB1H222JF3	50V 2200P
C451, 452	ECKR1H333ZF5	50V 0.033U
C453-456	ECCV2H680K	500V 68P
C457-460	ECEA1HKA3R3B	50V 3.3U
C501-504	ECA0JPXS101B	6V 100U
C505, 506	ECQV1H473JM3	50V 0.047U
C507	ECEA1CKA101B	16V 100U
C508	ECA1HM470B	50V 47U
C509	ECEA1HN100SB	50V 10U
C511, 512	ECBT1H270J5	50V 27P
C513-518	ECQV1H473JM3	50V 0.047U
C519-522	ECQB1H393JF3	50V 0.039U
C523, 524	ECBT1H102KB5	50V 1000P
C525, 526	ECKD1H821KB	50V 820P
C531, 532	ECBT1C332KR5	16V 3300P
C601	ECEA1HKAR47B	50V 0.47U (EB, EO, GC)
C602	ECEA1CKA100B	16V 10U (EB, EO, GC)
C603	ECEA1HKA3R3B	50V 3.3U (EB, EO, GC)
C604	ECEA1HKA010B	50V 1U (EB, EO, GC)
C605	ECEA0JKA331Q	6.3V 330U (EB, EO, GC)
C701, 702	ECETX56103KM	56V 10000U ⚠
C703, 704	ECHR1H103JZ3	50V 0.01U
C707, 708	ECA1JPXH560B	63V 56U
C709, 710	ECQE2334KF3	250V 0.33U
C711	ECQE2104KF3	250V 0.1U
C712	ECBT1C103NS5	16V 0.01U
C713	ECBT1H104ZF5	50V 0.1U
C714	ECA1CM471B	16V 470U
C715	ECEA1HKA010B	50V 1U
C716	ECA1CM102B	16V 1000U
C751-754	ECA1EPXS470B	25V 47U
C755, 756	ECEA1HBZ4R7B	50V 4.7U
C757, 758	ECA2APXS100B	100V 10U
C801-803	ECBT1C103NS5	16V 0.01U
C804	ECEA0JU102	6.3V 1000U
C805	ECEA1HKAR47B	50V 0.47U
C806	ECEA1HKA2R2B	50V 2.2U
C807	ECBT1H102KB5	50V 1000P
C808	ECEA0JKA101B	6.3V 100U
C809	ECBT1C103NS5	16V 0.01U
C810	ECEA1AKA470B	10V 47U
C811	ECBT1H101KB5	50V 100P
C812, 813	ECKR1H103ZF5	50V 0.01U
C814, 815	ECA1HPXS4R7B	50V 4.7U
C820	ECQV1H224JM3	50V 0.22U
C821	ECBT1H473ZF5	50V 0.047U

■ PACKAGING





Printed in Japan
F930611000FF/YU/TN